

GenCore version 5.1.6
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OM protein - prctein search, using sw model

Run on: June 4, 2004, 07:55:13 ; Search time 329.893 Seconds
(without alignments)
180.798 Million cell updates/sec

Title: US-09-997-641-387

Perfect score: 1102

Sequence: 1 MLWLLFLVTAHAEIQLCPG.....ENGIPDLMDKGGILMPPS 212

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1155919 seqs, 281338677 residues

Total number of hits satisfying chosen parameters: 510

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 80%

Maximum Match 100%

Listing first 65000 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/US07_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1102	100.0	212	9	US-09-989-722-387
2	1102	100.0	212	9	US-09-989-723-387
3	1102	100.0	212	9	US-09-989-729-387
4	1102	100.0	212	9	US-09-989-727-387
5	1102	100.0	212	9	US-09-989-731-387
6	1102	100.0	212	9	US-09-989-732-387
7	1102	100.0	212	9	US-09-991-073-387
8	1102	100.0	212	9	US-09-990-442-387
9	1102	100.0	212	9	US-09-991-163-387
10	1102	100.0	212	9	US-09-993-604-387
11	1102	100.0	212	9	US-09-990-456-387
12	1102	100.0	212	9	US-09-989-721-387
13	1102	100.0	212	9	US-09-992-598-387
14	1102	100.0	212	9	US-09-989-293A-387
15	1102	100.0	212	9	US-09-989-735-387

89	1102	100.0	212	12	US-10-157-798-482	Sequence 482, App
90	1102	100.0	212	14	US-10-028-072-482	Sequence 482, App
91	1102	100.0	212	14	US-10-121-049-482	Sequence 482, App
92	1102	100.0	212	14	US-10-123-904-482	Sequence 482, App
93	1102	100.0	212	14	US-10-140-470-482	Sequence 482, App
94	1102	100.0	212	14	US-10-115-746-482	Sequence 482, App
95	1102	100.0	212	14	US-10-176-918-482	Sequence 482, App
96	1102	100.0	212	14	US-10-176-921-482	Sequence 482, App
97	1102	100.0	212	14	US-10-137-865-482	Sequence 482, App
98	1102	100.0	212	14	US-10-140-474-482	Sequence 482, App
99	1102	100.0	212	14	US-10-142-431-482	Sequence 482, App
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101	1102	100.0	212	14	US-10-140-002-482	Sequence 482, App
102	1102	100.0	212	14	US-10-142-419-482	Sequence 482, App
103	1102	100.0	212	14	US-10-123-262-482	Sequence 482, App
104	1102	100.0	212	14	US-10-142-423-482	Sequence 482, App
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490	1102	100.0	212	15	US-10-140-865-482	Sequence 482, App
491	1102	100.0	212	15	US-10-141-701-482	Sequence 482, App
492	1102	100.0	212	15	US-10-141-754-482	Sequence 482, App
493	1102	100.0	212	15	US-10-141-760-482	Sequence 482, App
494	1102	100.0	212	15	US-10-142-425-482	Sequence 482, App
495	1102	100.0	212	15	US-10-142-430-482	Sequence 482, App
496	1102	100.0	212	15	US-10-143-113-482	Sequence 482, App
497	1102	100.0	212	15	US-10-146-730-482	Sequence 482, App
498	1102	100.0	212	15	US-10-146-792-482	Sequence 482, App
499	1102	100.0	212	15	US-10-158-791-482	Sequence 482, App
500	1102	100.0	212	15	US-10-156-843-482	Sequence 482, App
501	1102	100.0	212	15	US-10-157-786-482	Sequence 482, App
502	1102	100.0	212	15	US-10-219-538-387	Sequence 387, App
503	1102	100.0	212	15	US-10-147-528-482	Sequence 482, App
504	1102	100.0	212	15	US-10-128-692A-482	Sequence 482, App
505	1102	100.0	212	15	US-10-140-827-482	Sequence 482, App
506	1102	100.0	212	16	US-10-147-536-482	Sequence 482, App
507	1073	97.4	222	12	US-10-372-876-141	Sequence 141, App
508	1073	97.4	222	14	US-10-097-065-141	Sequence 141, App
509	1066	96.7	222	10	US-09-948-783-129	Sequence 129, App
510	1066	96.7	223	10	US-09-892-877-128	Sequence 128, App

ALIGNMENTS

RESULT 1

US-09-989-722-387
; Sequence 387, Application US/09989722
; Patent No. US20020072067A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Ratton, Dan L.
; APPLICANT: Ferrara, Napoleone

```
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: F330R1C445
; CURRENT APPLICATION NUMBER: US/10/157,786
; CURRENT FILING DATE: 2002-05-29
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 482
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-157-786-482

Query Match 100.0%; Score 1102; DB 15; Length 212;
Best Local Similarity 100.0%; Pred. No. 4.8e-113;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLWLLFFLVTAIHAELCQPGAENAFKVRISIRIALGDKAYAMDTNBEYLFKAMVAFSMRK 60
DB 1 MLWLLFFLVTAIHAELCQPGAENAFKVRISIRIALGDKAYAMDTNBEYLFKAMVAFSMRK 60
QY 61 VNRREATEISVLLCNVTQVSFWVVDPSKNHTLPAVEVQSAIRMNKNRINNAFFLND 120
DB 61 VNRREATEISVLLCNVTQVSFWVVDPSKNHTLPAVEVQSAIRMNKNRINNAFFLND 120
QY 121 QTLFLKIPSTLAPPMDSVPPIIIFGVIFCIIIVAIALLILSGIWQRRRNKKEPSEVD 180
DB 121 QTLFLKIPSTLAPPMDSVPPIIIFGVIFCIIIVAIALLILSGIWQRRRNKKEPSEVD 180
QY 181 DAEDKCNMTIENGIPSDPLDMKGGILMMP 212
DB 181 DAEDKCNMTIENGIPSDPLDMKGGILMMP 212

RESULT 502
US-10-219-538-387
; Sequence 387, Application US/10219538
; Publication No. US20030219856A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Kijavini, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: F2730P1C73
; CURRENT APPLICATION NUMBER: US/10/219,538
; CURRENT FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: US 09/941,992
; PRIOR FILING DATE: 2001-08-28
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: 2000-03-30
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: 1999-06-02
```

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; PRIOR APPLICATION NUMBER: US 09/380,137
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: US 60/141,037
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: US 60/992,182
; PRIOR FILING DATE: 1998-07-09
; NUMBER OF SEQ ID NOS: 532
; SEQ ID NO 387
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-219-538-387

Query Match 100.0%; Score 1102; DB 15; Length 212;
Best Local Similarity 100.0%; Pred. No. 4.8e-113;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLWLLFFLVTAIHAELCQPGAENAFKVRISIRIALGDKAYAMDTNBEYLFKAMVAFSMRK 60
DB 1 MLWLLFFLVTAIHAELCQPGAENAFKVRISIRIALGDKAYAMDTNBEYLFKAMVAFSMRK 60
QY 61 VNRREATEISVLLCNVTQVSFWVVDPSKNHTLPAVEVQSAIRMNKNRINNAFFLND 120
DB 61 VNRREATEISVLLCNVTQVSFWVVDPSKNHTLPAVEVQSAIRMNKNRINNAFFLND 120
QY 121 QTLFLKIPSTLAPPMDSVPPIIIFGVIFCIIIVAIALLILSGIWQRRRNKKEPSEVD 180
DB 121 QTLFLKIPSTLAPPMDSVPPIIIFGVIFCIIIVAIALLILSGIWQRRRNKKEPSEVD 180
QY 181 DAEDKCNMTIENGIPSDPLDMKGGILMMP 212
DB 181 DAEDKCNMTIENGIPSDPLDMKGGILMMP 212

RESULT 503
US-10-147-528-482
; Sequence 482, Application US/10147528
; Publication No. US20030219885A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C334
; CURRENT APPLICATION NUMBER: US/10/147,528
; CURRENT FILING DATE: 2002-05-16
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: 1999-06-02
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 482
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-147-528-482

Query Match 100.0%; Score 1102; DB 15; Length 212;
Best Local Similarity 100.0%; Pred. No. 4.8e-113;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 MLWLLFPLVTAIHAELCQPGAENAFKVLRSIRLTALGDKAYAWDTNEEYLFKAMVAFPSMRK 60
DB 1 MLWLLFPLVTAIHAELCQPGAENAFKVLRSIRLTALGDKAYAWDTNEEYLFKAMVAFPSMRK 60
QY 61 VPREATEISHVLNCNVTVQVSFWFVVTDPDSKNHTLPAVEVQSAIRMNKNRINNAFFLND 120
DB 61 VPREATEISHVLNCNVTVQVSFWFVVTDPDSKNHTLPAVEVQSAIRMNKNRINNAFFLND 120
QY 121 QTLFPLKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWRRRKNKEPSEVD 180
DB 121 QTLFPLKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWRRRKNKEPSEVD 180
QY 181 DAEDKCNMTIENGIPSDPLDMKGGILMMP 212
DB 181 DAEDKCNMTIENGIPSDPLDMKGGILMMP 212

RESULT 504

US-10-128-692A-482
; Sequence 482, Application US/10128692A
; Publication No. US20040009547A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Pilvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C124
; CURRENT FILING DATE: 2002-10-15
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining prior application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 482
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Homo Sapien

US-10-128-692A-482

Query Match 100.0%; Score 1102; DB 15; Length 212;

Best Local Similarity 100.0%; Pred. No. 4.8e-113;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MLWLLFPLVTAIHAELCQPGAENAFKVLRSIRLTALGDKAYAWDTNEEYLFKAMVAFPSMRK 60
DB 1 MLWLLFPLVTAIHAELCQPGAENAFKVLRSIRLTALGDKAYAWDTNEEYLFKAMVAFPSMRK 60
QY 61 VPREATEISHVLNCNVTVQVSFWFVVTDPDSKNHTLPAVEVQSAIRMNKNRINNAFFLND 120
DB 61 VPREATEISHVLNCNVTVQVSFWFVVTDPDSKNHTLPAVEVQSAIRMNKNRINNAFFLND 120
QY 121 QTLFPLKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWRRRKNKEPSEVD 180
DB 121 QTLFPLKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWRRRKNKEPSEVD 180
QY 181 DAEDKCNMTIENGIPSDPLDMKGGILMMP 212
DB 181 DAEDKCNMTIENGIPSDPLDMKGGILMMP 212

RESULT 505

US-10-140-927-482
; Sequence 482, Application US/10140927
; Publication No. US20040009548A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Pilvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C180
; CURRENT FILING DATE: 2002-05-07
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining prior application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 482
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Homo Sapien

US-10-140-927-482
Query Match 100.0%; Score 1102; DB 15; Length 212;
Best Local Similarity 100.0%; Pred. No. 4.8e-113;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MLWLLFPLVTAIHAELCQPGAENAFKVLRSIRLTALGDKAYAWDTNEEYLFKAMVAFPSMRK 60
DB 1 MLWLLFPLVTAIHAELCQPGAENAFKVLRSIRLTALGDKAYAWDTNEEYLFKAMVAFPSMRK 60
QY 61 VPREATEISHVLNCNVTVQVSFWFVVTDPDSKNHTLPAVEVQSAIRMNKNRINNAFFLND 120
DB 61 VPREATEISHVLNCNVTVQVSFWFVVTDPDSKNHTLPAVEVQSAIRMNKNRINNAFFLND 120
QY 121 QTLFPLKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWRRRKNKEPSEVD 180
DB 121 QTLFPLKIPSTLAPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWRRRKNKEPSEVD 180
QY 181 DAEDKCNMTIENGIPSDPLDMKGGILMMP 212

Db 181 DAEDKCNMTIENGIPSDPLDMKGGILMMP 212

RESULT 506

US-10-147-536-482

Sequence 482, Application US/10147536

Publication No. US20040077064A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.

APPLICANT: Beresini, Maureen

APPLICANT: DeForge, Laura

APPLICANT: Desnoyers, Luc

APPLICANT: Filvatoff, Ellen

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Gurney, Austin L.

APPLICANT: Sherwood, Steven

APPLICANT: Smith, Victoria

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K

APPLICANT: Wood, William

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

TITLE OF INVENTION: ACIDS ENCODING THE SAME

FILE REFERENCE: P3330R1C349

CURRENT APPLICATION NUMBER: US/10/147,536

CURRENT FILING DATE: 2002-05-17

Prior Application removed - See File Wrapper or Palm

NUMBER OF SEQ ID NOS: 550

SEQ ID NO 482

LENGTH: 212

TYPE: PRT

ORGANISM: Homo Sapien

US-10-147-536-482

Query Match 100.0%; Score 1102; DB 16; Length 212;

Best Local Similarity 100.0%; Pred. No. 4.8e-113;

Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLWLLFLVTAIHAELCPQAEAFKVLRLSRTALGDKAYAWDTNEEYLFKAVAFSMRK 60

Db 1 MLWLLFLVTAIHAELCPQAEAFKVLRLSRTALGDKAYAWDTNEEYLFKAVAFSMRK 60

Qy 61 VPNEZANTEISHVLNCNTQTVSFVVTVDPSKNHTLPAVEVQSALRNKNRINNAFFLND 120

Db 61 VPNEZANTEISHVLNCNTQTVSFVVTVDPSKNHTLPAVEVQSALRNKNRINNAFFLND 120

Qy 121 QTLFSLKIPSTLAPPMPDPSVIWIIIFGVIFCIIVATALLILSGIMORRRKNKEPSEVD 180

Db 121 QTLFSLKIPSTLAPPMPDPSVIWIIIFGVIFCIIVATALLILSGIMORRRKNKEPSEVD 180

Qy 181 DAEDKCNMTIENGIPSDPLDMKGGILMMP 212

Db 181 DAEDKCNMTIENGIPSDPLDMKGGILMMP 212

RESULT 507

US-10-372-876-141

Sequence 141, Application US/10372876

Publication No. US20030204071A1

GENERAL INFORMATION:

APPLICANT: Moore, Paul A. et al.

TITLE OF INVENTION: 110 Human Secreted Proteins

FILE REFERENCE: P2021P1

CURRENT APPLICATION NUMBER: US/10/372,876

CURRENT FILING DATE: 2003-02-26

Prior Application Number: 09/334,595

Prior Filing Date: 1999-06-17

Prior Application Number: PCT/US98/27059

Prior Filing Date: 1998-12-17


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; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,053
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,064
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,054
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,008
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,365
; PRIOR FILING DATE: 1997-12-19
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 141
; LENGTH: 222
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-097-065-141

Query Match      97.4%; Score 1073; DB 14; Length 222;
Best Local Similarity 100.0%; Pred. No. 8.1e-110;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLWLLFFLVTAHAELCPGAEAFKVRLSIRLTALGDKAYAWDTNVEEYLFKAMVAFSRRK 60
DB 1 MLWLLFFLVTAHAELCPGAEAFKVRLSIRLTALGDKAYAWDTNVEEYLFKAMVAFSRRK 60

QY 61 VNRREATEISHVLLCNVTQVSFWFVVTDPSPKNTLPAVEVQSALRMKNKRNINNAFFLND 120
DB 61 VNRREATEISHVLLCNVTQVSFWFVVTDPSPKNTLPAVEVQSALRMKNKRNINNAFFLND 120

QY 121 QTLFELKIPSTLAPPDPSVPWIIIFGVIFCIIVAIALLILSGIWRRRKNKEPSEVD 180
DB 121 QTLFELKIPSTLAPPDPSVPWIIIFGVIFCIIVAIALLILSGIWRRRKNKEPSEVD 180

QY 181 DAEDKCNMTIENGIPSDPLDMKGG 206
DB 181 DAEDKCNMTIENGIPSDPLDMKGG 206

RESULT 509
US-09-948-783-129
; Sequence 129, Application US/09948783
; Publication No. US20030100051A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et. al.
; TITLE OF INVENTION: 97 Human secreted proteins
; FILE REFERENCE: PZ028P2
; CURRENT APPLICATION NUMBER: US/09/948,783
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/231,846
; PRIOR FILING DATE: 2000-09-11
; PRIOR APPLICATION NUMBER: 09/892,877
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: 09/437,658
; PRIOR FILING DATE: 1999-11-10
; PRIOR APPLICATION NUMBER: PCT/US99/09847
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/085,093
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: 60/085,094
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: 60/085,105
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: 60/085,180
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: 60/085,927
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,906
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,924
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,922
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; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,921
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,923
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,925
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,928
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/085,920
; PRIOR FILING DATE: 1998-05-18
; NUMBER OF SEQ ID NOS: 465
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 129
; LENGTH: 222
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (120)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-948-783-129

Query Match      96.7%; Score 1066; DB 10; Length 222;
Best Local Similarity 99.5%; Pred. No. 4.8e-109;
Matches 205; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MLWLLFFLVTAHAELCPGAEAFKVRLSIRLTALGDKAYAWDTNVEEYLFKAMVAFSRRK 60
DB 1 MLWLLFFLVTAHAELCPGAEAFKVRLSIRLTALGDKAYAWDTNVEEYLFKAMVAFSRRK 60

QY 61 VNRREATEISHVLLCNVTQVSFWFVVTDPSPKNTLPAVEVQSALRMKNKRNINNAFFLND 120
DB 61 VNRREATEISHVLLCNVTQVSFWFVVTDPSPKNTLPAVEVQSALRMKNKRNINNAFFLND 120

QY 121 QTLFELKIPSTLAPPDPSVPWIIIFGVIFCIIVAIALLILSGIWRRRKNKEPSEVD 180
DB 121 QTLFELKIPSTLAPPDPSVPWIIIFGVIFCIIVAIALLILSGIWRRRKNKEPSEVD 180

QY 181 DAEDKCNMTIENGIPSDPLDMKGG 206
DB 181 DAEDKCNMTIENGIPSDPLDMKGG 206

RESULT 510
US-09-892-877-128
; Sequence 128, Application US/09892877
; Publication No. US20030077809A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et. al.
; TITLE OF INVENTION: 97 Human secreted proteins
; FILE REFERENCE: PZ028P1
; CURRENT APPLICATION NUMBER: US/09/892,877
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/437,658
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-11-10
; NUMBER OF SEQ ID NOS: 461
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 128
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (120)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-892-877-128

Query Match      96.7%; Score 1066; DB 10; Length 223;
Best Local Similarity 99.5%; Pred. No. 4.8e-109;
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Matches 205; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MLWLLFFLVTAIHAELCQPGAENAFKVRLSIRTALGDKAYAWDTNEEYLFKAMVAFSMRK 60
Db 1 MLWLLFFLVTAIHAELCQPGAENAFKVRLSIRTALGDKAYAWDTNEEYLFKAMVAFSMRK 60
Qy 61 VPNEATEISHVLLCNVTQVSVFWVVTDPKNTLPAVEVQSAIRWKKRINNAPFLND 120
Db 61 VPNEATEISHVLLCNVTQVSVFWVVTDPKNTLPAVEVQSAIRWKKRINNAPFLNK 120
Qy 121 QTFLEFLKIPSTLAPPDPSVPIMIIIFGVIFCIIIVAIALLILSGIWORRRKKEPSEVD 180
Db 121 QTFLEFLKIPSTLAPPDPSVPIMIIIFGVIFCIIIVAIALLILSGIWORRRKKEPSEVD 180
Qy 181 DAEDXCENMITIENGIPSDPLDMKGG 206
Db 181 DAEDXCENMITIENGIPSDPLDMKGG 206
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Search completed: June 4, 2004, 08:17:14
Job time : 355.893 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 4, 2004, 07:49:03 ; Search time 67.7366 Seconds
(without alignments)
884.309 Million cell updates/sec

Title: US-09-997-641-387
Perfect score: 1102
Sequence: 1 MLWLLFLVTAHAEICQPG.....ENGIPSDPLDMKGGILMPS 212

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues

Total number of hits satisfying chosen parameters: 225

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 80%
Maximum Match 100%
Listing first 65000 summaries

Database : A Geneseq_29Jan04.*

1: geneseqp1980s.*
2: geneseqp1980s.*
3: geneseqp2000s.*
4: geneseqp2000s.*
5: geneseqp2002s.*
6: geneseqp2003as.*
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8: geneseqp2004s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	1102	100.0	212	3	Aab24430 Human PRO
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14	1102	100.0	212	6	Abs66810 Human PRO
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26	1102	100.0	212	6	ABU88626	Human sec
27	1102	100.0	212	6	ABO34140	Human PRO
28	1102	100.0	212	6	ADA46001	Novel hum
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30	1102	100.0	212	6	ADA19082	Human PRO
31	1102	100.0	212	6	ADA61705	Homo sapi
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33	1102	100.0	212	6	ADb8031	Human PRO
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35	1102	100.0	212	6	ADb16074	Human PRO
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43	1102	100.0	212	6	ADA17915	Human PRO
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50	1102	100.0	212	6	ADb14970	Human PRO
51	1102	100.0	212	6	ADb18931	Novel hum
52	1102	100.0	212	6	ADA94146	Human PRO
53	1102	100.0	212	6	ADb20042	Novel hum
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55	1102	100.0	212	6	ABO43389	Novel hum
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57	1102	100.0	212	6	ADA74608	Human PRO
58	1102	100.0	212	6	ADb24841	Human PRO
59	1102	100.0	212	6	ADA82365	Human PRO
60	1102	100.0	212	6	ADA75328	Human PRO
61	1102	100.0	212	6	ADA85406	Novel hum
62	1102	100.0	212	6	ADA84854	Novel hum
63	1102	100.0	212	6	ADb30110	Human PRO
64	1102	100.0	212	6	ADA80638	Human PRO
65	1102	100.0	212	6	ADA75880	Human PRO
66	1102	100.0	212	6	ADA38828	Human sec
67	1102	100.0	212	6	ADA47105	Human PRO
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69	1102	100.0	212	6	ADA93577	Human PRO
70	1102	100.0	212	6	ADb26927	Human PRO
71	1102	100.0	212	6	ADb31214	Human PRO
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73	1102	100.0	212	6	ADA61142	Homo sapi
74	1102	100.0	212	6	ADb24289	Human PRO
75	1102	100.0	212	6	ADA96618	Human PRO
76	1102	100.0	212	6	ADA81190	Human PRO
77	1102	100.0	212	6	ADA96066	Human PRO
78	1102	100.0	212	6	ADb26375	Human PRO
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91	1102	100.0	212	7	ADA97722	Human PRO
92	1102	100.0	212	7	ADb27479	Human PRO
93	1102	100.0	212	7	ADb22412	Novel hum
94	1102	100.0	212	7	ABO22596	Human sec
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96	1102	100.0	212	7	ADA39369	Human sec
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102	1102	100.0	212	7	ADB38774	Novel	hum	175	1102	100.0	212	7	ADE17932	Human	PRO
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105	1102	100.0	212	7	ADB66694	Novel	hum	178	1102	100.0	212	7	ADE34079	Novel	hum
106	1102	100.0	212	7	ADB89774	Human	PRO	179	1102	100.0	212	7	ADD80131	Human	PRO
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109	1102	100.0	212	7	ADB47230	Novel	hum	182	1102	100.0	212	7	ADE19036	Human	PRO
110	1102	100.0	212	7	ADB86837	Human	PRO	183	1102	100.0	212	7	ADE43232	Human	PRO
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112	1102	100.0	212	7	ADB34599	Human	PRO	185	1102	100.0	212	7	ADD22907	Human	PRO
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122	1102	100.0	212	7	ADC07575	Human	sec	195	1102	100.0	212	8	ADD76667	Human	PRO
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126	1102	100.0	212	7	ADC60049	Novel	hum	199	1102	100.0	212	8	ADE23459	Human	PRO
127	1102	100.0	212	7	ADC53056	Novel	hum	200	1102	100.0	212	8	ADE24011	Human	PRO
128	1102	100.0	212	7	ADC57410	Novel	hum	201	1102	100.0	212	8	ADE24654	Human	PRO
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130	1102	100.0	212	7	ADC51076	Novel	hum	203	1102	100.0	212	8	ADE89345	Human	PRO
131	1102	100.0	212	7	ADC65603	Human	PRO	204	1102	100.0	212	8	ADE18484	Human	PRO
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135	1102	100.0	212	7	ADC56063	Novel	hum	208	1073	97.4	222	6	ADA40837	Human	can
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137	1102	100.0	212	7	ADC14687	Novel	hum	210	1073	97.4	222	6	ADA11613	Human	sec
138	1102	100.0	212	7	ADC08219	Novel	hum	211	1073	97.4	222	2	AGD37902	Human	sec
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140	1102	100.0	212	7	ADC90299	Novel	hum	213	1070	96.7	222	3	AAY76135	Human	sec
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ALIGNMENTS

RESULT 1
AAV66751
ID AAV66751 standard; protein; 212 AA.
XX AC AAV66751;
XX DT 05-APR-2000 (first entry)
XX DE Membrane-bound protein PRO1312.
XX KW Membrane-bound polypeptide; PRO polypeptide; LOL receptor; TIE ligand;
XX KW pharmaceutical; receptor immunoadhesin; gene mapping.
XX OS Homo sapiens.

ALIGNMENTS

RESULT 1

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XX OS Homo sapiens.

XX PN WO9963088-A2.
XX PD 09-DEC-1999.
XX PF 02-JUN-1999; 99WO-US012252.
XX 02-JUN-1998; 98US-0087607P.
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PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
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PR 26-AUG-1998; 98US-0098014P.
PR 31-AUG-1998; 98US-0098525P.
PR 16-SEP-1998; 98US-0100634P.
PR 12-JAN-1999; 99US-0115565P.
XX (GETH) GENENTECH INC.
XX PA
XX XX

PI Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;
 PI Wood WI, Yuan J;
 XX WPI; 2000-072883/06.
 DR N-PSDB; AAC265097.
 XX
 PT Membrane-bound proteins and related nucleotide sequences.
 XX
 XX Claim 12; Fig 278; 822pp; English.

The invention provides membrane-bound PRO polypeptides and polynucleotides encoding them. The PRO sequences of the invention were identified based on extracellular domain homology screening. The PRO sequences have homology with proteins including LDL receptors, TIE ligands and various enzymes. The membrane-bound proteins and receptor molecules are useful as pharmaceutical and diagnostic agents. Receptor immunoadhesins, for instance, can be used as therapeutic agents to block receptor-ligand interactions. The membrane-bound proteins can also be employed for screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction. The PRO encoding sequences are useful as hybridization probes, in chromosome and gene mapping and in the generation of antisense RNA and DNA. PRO nucleic acid sequences will also be useful for the preparation of PRO polypeptides, especially by recombinant techniques
 XX Sequence 212 AA;

Query Match 100.0%; Score 1102; DB 3; Length 212;
 Best Local Similarity 100.0%; Pred. No. 5.8e-114;
 Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MLWLLFLLVTAHAEICQFGAENAFKVLRSIRTLGDKAYAWDTNEEYLFKAWAFSPMK 60
 DB 1 MLWLLFLLVTAHAEICQFGAENAFKVLRSIRTLGDKAYAWDTNEEYLFKAWAFSPMK 60
 QY 61 VFNREATEISHVLLCNVTQVSFWFVTPDSKNHTLPAYEVQSAIRMNKNRINNAFFLND 120
 DB 61 VFNREATEISHVLLCNVTQVSFWFVTPDSKNHTLPAYEVQSAIRMNKNRINNAFFLND 120
 QY 121 QLEFLKIPSTLAPPDPSVPVWIIIFGVIFCIIIVAIALLLSGIWQRNKKPSEVD 180
 DB 121 QLEFLKIPSTLAPPDPSVPVWIIIFGVIFCIIIVAIALLLSGIWQRNKKPSEVD 180
 QY 181 DAEDKCNMTTNGIPSPDLMKGGILMWS 212
 DB 181 DAEDKCNMTTNGIPSPDLMKGGILMWS 212

RESULT 2
 AAB33447
 ID AAB33447 standard; protein; 212 AA.
 XX
 AC AAB33447;
 XX
 DT 29-JAN-2001 (first entry)
 XX
 DE Human PRO1312 protein UNQ678 SEQ ID NO:161.

XX Human; immune related disease; diagnosis; antiinflammatory; cardiant;
 KW dermatological; antiarthritic; antirheumatic; immunosuppressive;
 KW haemostatic; antithyroid; antidiabetic; nootropic; neuroprotective;
 KW antianemic; hepatotropic; virocidic; antipsoriatic; antiallergic;
 KW antisthmatic; systemic lupus erythematosus; rheumatoid arthritis;
 KW osteoarthritis; spondyloarthritis; systemic sclerosis; sarcoidosis;
 KW idiopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis;
 KW systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus;
 KW autoimmune thrombocytopenia; immune-mediated renal disease;
 KW demyelinating disease; hepatobiliary disease; Whipple's disease;
 KW inflammatory bowel disease; gluten-sensitive enteropathy;
 KW autoimmune disease; immune-mediated skin disease; allergic disease;
 KW immunological disease; transplantation associated disease;
 KW graft rejection; graft-versus-host-disease.

OS Homo sapiens.
 XX W0200053758-A2.
 XX
 PD 14-SEP-2000.
 XX
 PF 02-MAR-2000; 2000WO-US005841.
 XX
 PR 08-MAR-1999; 99WO-US005028.
 PR 10-MAR-1999; 99US-0123618P.
 PR 12-MAR-1999; 99US-0123957P.
 PR 12-MAR-1999; 99US-0125775P.
 PR 12-APR-1999; 99US-0128849P.
 PR 20-APR-1999; 99WO-US008615.
 PR 28-APR-1999; 99US-0131445P.
 PR 04-MAY-1999; 99US-0132371P.
 PR 14-MAY-1999; 99US-0134287P.
 PR 02-JUN-1999; 99WO-US012252.
 PR 23-JUN-1999; 99US-0141037P.
 PR 26-JUL-1999; 99US-0144758P.
 PR 26-JUL-1999; 99US-0145698P.
 PR 01-SEP-1999; 99WO-US020111.
 PR 08-SEP-1999; 99WO-US020594.
 PR 13-SEP-1999; 99WO-US020944.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US0211547.
 PR 05-OCT-1999; 99WO-US023089.
 PR 29-OCT-1999; 99US-0162506P.
 PR 29-NOV-1999; 99WO-US028214.
 PR 30-NOV-1999; 99WO-US028313.
 PR 30-NOV-1999; 99WO-US028409.
 PR 01-DEC-1999; 99WO-US028301.
 PR 01-DEC-1999; 99WO-US028634.
 PR 02-DEC-1999; 99WO-US028551.
 PR 02-DEC-1999; 99WO-US028564.
 PR 16-DEC-1999; 99WO-US028565.
 PR 20-DEC-1999; 99WO-US030095.
 PR 30-DEC-1999; 99WO-US030939.
 PR 30-DEC-1999; 99WO-US031274.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000277.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 18-FEB-2000; 2000WO-US004342.
 PR 22-FEB-2000; 2000WO-US004414.

(GETH) GENENTECH INC.

Ashtkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;
 Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;
 Stewart TA, Tumas D, Watanabe CK, Wood WI, Yan M;
 WPI; 2000-572271/53.
 N-PSDB; AAC58612.

Sixty four PRO polypeptides, useful in the diagnosis and treatment of immune related disorders, e.g. systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis, thyroiditis and diabetes mellitus.

Claim 3; Fig 68; 309pp; English.

The present invention describes sixty four human PRO proteins which can be used in the treatment of immune related diseases. The human PRO proteins, anti-PRO antibodies, agonists and antagonists are useful for treating and diagnosing immune related disorders. The disorders are selected from systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis, spondyloarthritis, systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes mellitus, immune-mediated renal disease, demyelinating diseases of the central and

XX PI Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX WPI: 2004-020236/02.
 DR N-PSDB; ADE24653.
 XX
 XX New secreted and transmembrane nucleic acid useful for treating
 FT inflammation, organ failure, atherosclerosis, cardiac injury,
 FT infertility, birth defects, premature aging, acquired immunodeficiency
 syndrome, or cancer.
 XX
 PS Claim 12; Fig 482; 637pp; English.
 XX
 CC The invention relates to isolated human PRO polypeptides (secreted and
 CC transmembrane polypeptides) and the polynucleotides encoding them. The
 CC invention also relates to an antibody which specifically binds to a PRO
 CC polypeptide, a method for stimulating the release of tumour necrosis
 CC factor-alpha (TNF-alpha) from human blood, a method for stimulating the
 CC proliferation or differentiation of chondrocyte cells and a method for
 CC detecting the presence of a tumour in a mammal (e.g. adrenal, lung,
 CC colon, breast, prostate, rectal, kidney, cervical and liver tumours). The
 CC polynucleotides are useful in molecular biology, including uses as
 CC hybridisation probes, in chromosome and gene mapping, in generating
 CC antisense RNA and DNA and in gene therapy. The polynucleotides may also
 CC be used in preparing PRO polypeptides by recombinant techniques and in
 CC generating either transgenic animals or knock-out animals which are
 CC useful in the development and screening of therapeutically useful
 CC reagents. The PRO polypeptides or antibodies are used in preparing a
 CC medicament for treating a condition responsive to the polypeptides or
 CC antibodies, such as tumours, for stimulating and inhibiting proliferation
 CC of human microvascular endothelial cells, for modulating the uptake of
 CC glucose or FFA by skeletal muscle cells or adipocyte cells, for
 CC stimulating differentiation of adipocyte cells, for stimulating
 CC proliferation of or gene expression in pericyte cells, for stimulating
 CC the proliferation of inner ear utricular supporting cells or T-lymphocyte
 CC cells, for inducing endothelial cell tube formation and for treating
 CC various bone and/or cartilage disorders such as sports injuries and
 CC arthritis. PRO polypeptides which stimulate the release of proteoglycans
 CC from cartilage are useful for treating sports-related joint problems,
 CC articular cartilage defects, osteoarthritis and rheumatoid arthritis. PRO
 CC polypeptides are also useful for treating various mammalian haemoglobin-
 CC associated disorders such as various thalassaemias and conditions which
 CC may benefit from enhanced local immune system cell infiltration. This
 CC sequence represents a human PRO polypeptide of the invention. Note: The
 CC sequence data for this patent is also available in electronic format from
 CC the USPTO website at seqdata.uspto.gov.
 XX
 SQ Sequence 212 AA;

Query Match 100.0%; Score 1102; DB 8; Length 212;
 Best Local Similarity 100.0%; Pred. No. 5.8e-114;
 Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLWLFFLVTAIHAELCPGNAEFKVLSTALGDKAYAWDTNREYLFKAMVAFSNEK 60
 DB 1 MLWLFFLVTAIHAELCPGNAEFKVLSTALGDKAYAWDTNREYLFKAMVAFSNEK 60
 QY 61 VPNEATEISHVLLCNVTQVSFVFWVDPKSNHTLPAVEQSAIRMNKNRINNAFFLND 120
 DB 61 VPNEATEISHVLLCNVTQVSFVFWVDPKSNHTLPAVEQSAIRMNKNRINNAFFLND 120
 QY 121 QTLBFLKIPSTLAPMDSVPVPIIIFGVIFCIIVALLILSGIWRRRKNKEPSEVD 180
 DB 121 QTLBFLKIPSTLAPMDSVPVPIIIFGVIFCIIVALLILSGIWRRRKNKEPSEVD 180
 QY 181 DAEDKCNHIFTENGIPSDPLDMKGGILMMPSS 212
 DB 181 DAEDKCNHIFTENGIPSDPLDMKGGILMMPSS 212

RESULT 202

ADD87479
 ID ADD87479 standard; protein; 212 AA.
 XX AC
 XX ADD87479;
 XX DT 29-JAN-2004 (first entry)
 XX DE Human PRO polypeptide #241.
 XX
 XX Human; PRO; secreted polypeptide; transmembrane polypeptide;
 KW tumour necrosis factor-alpha; TNF-alpha; chondrocyte cell; tumour;
 KW cancer; adrenal; lung; colon; breast; prostate; kidney; cervix;
 KW liver; microvascular endothelial cell; glucose; FFA;
 KW skeletal muscle cell; adipocyte cell; pericyte cell;
 KW inner ear utricular supporting cell; T-lymphocyte cell;
 KW endothelial cell tube formation; bone disorder; cartilage disorder;
 KW sports injury; proteoglycan; articular cartilage defect; osteoarthritis;
 KW rheumatoid arthritis; haemoglobin-associated disorder; thalassaemia;
 KW immune system cell infiltration.
 XX
 OS Homo sapiens.
 XX US20030203439-A1.
 XX
 PD 30-OCT-2003.
 XX
 PF 17-MAY-2002; 2002US-00147499.
 XX
 XX 04-AUG-1998; 98US-0095301P.
 PR 02-JUN-1999; 99WO-US012252.
 PR 30-MAR-2000; 2000US-00380137.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 19-DEC-2001; 2001US-00028072.
 XX
 XX (GSETH) GENENTECH INC.
 XX
 XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX WPI: 2004-021362/02.
 DR N-PSDB; ADD87479.
 XX
 XX New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO1114 or
 PRO4978, useful in molecular biology, chromosome and gene mapping, in
 generating antisense RNA and DNA, and in gene therapy.
 XX
 PS Claim 12; Fig 482; 640pp; English.
 XX
 CC The invention relates to isolated human PRO polypeptides (secreted and
 CC transmembrane polypeptides) and the polynucleotides encoding them. The
 CC invention also relates to an antibody which specifically binds to a PRO
 CC polypeptide, a method for stimulating the release of tumour necrosis
 CC factor-alpha (TNF-alpha) from human blood, a method for stimulating the
 CC proliferation or differentiation of chondrocyte cells and a method for
 CC detecting the presence of a tumour in a mammal (e.g. adrenal, lung,
 CC colon, breast, prostate, rectal, kidney, cervical and liver tumours). The
 CC polynucleotides are useful in molecular biology, including uses as
 CC hybridisation probes, in chromosome and gene mapping, in generating
 CC antisense RNA and DNA and in gene therapy. The polynucleotides may also
 CC be used in preparing PRO polypeptides by recombinant techniques and in
 CC generating either transgenic animals or knock-out animals which are
 CC useful in the development and screening of therapeutically useful
 CC reagents. The PRO polypeptides or antibodies are used in preparing a
 CC medicament for treating a condition responsive to the polypeptides or
 CC antibodies, such as tumours, for stimulating and inhibiting proliferation
 CC of human microvascular endothelial cells, for modulating the uptake of
 CC glucose or FFA by skeletal muscle cells or adipocyte cells, for
 CC stimulating differentiation of adipocyte cells, for stimulating
 CC proliferation of or gene expression in pericyte cells, for stimulating
 CC the proliferation of inner ear utricular supporting cells or T-lymphocyte
 CC cells, for inducing endothelial cell tube formation and for treating

CC various bone and/or cartilage disorders such as sports injuries and
CC arthritis. PRO polypeptides which stimulate the release of proteoglycans
CC from cartilage are useful for treating sports-related joint problems,
CC articular cartilage defects, osteoarthritis and rheumatoid arthritis. PRO
CC polypeptides are also useful for treating various mammalian haemoglobin-
CC associated disorders such as various thalassemias and conditions which
CC may benefit from enhanced local immune system cell infiltration. This
CC sequence represents a human PRO polypeptide of the invention. Note: The
CC sequence data for this patent is also available in electronic format from
CC USPTO at seqdata.uspto.gov/sequence.html.
XX
SQ Sequence 212 AA;
Query Match 100.0%; Score 1102; DB 8; Length 212;
Best Local Similarity 100.0%; Pred No. 5, 8e-114;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MLWLFLPVTVAHAELCQCAENAFKVRSLRISRTALGKAYAMDTNBEYLFKAMVAFSMEK 60
Db 1 MLWLFLPVTVAHAELCQCAENAFKVRSLRISRTALGKAYAMDTNBEYLFKAMVAFSMEK 60
QY 61 VPREARETSHVLLCNVTCRVSFVVTDPSPKNNHTLPAVEVOSAIRMKNKRNINNAFFLND 120
Db 61 VPREARETSHVLLCNVTCRVSFVVTDPSPKNNHTLPAVEVOSAIRMKNKRNINNAFFLND 120
QY 121 QTLEFLKIPSTLAPPMDPSVPVWIIIFGVIFCIIIVAIALLISGIWQRRRNKKEPSEVD 180
Db 121 QTLEFLKIPSTLAPPMDPSVPVWIIIFGVIFCIIIVAIALLISGIWQRRRNKKEPSEVD 180
QY 181 DAEDKCNMTIENGIPSDPLDKGGILMMP 212
Db 181 DAEDKCNMTIENGIPSDPLDKGGILMMP 212
RESULT 203
AD89345
ID AD89345 standard; protein; 212 AA.
AC AD89345;
DT 29-JAN-2004 (first entry)
DE Human PRO polypeptide #241.
XX Human; PRO; secreted polypeptide; transmembrane polypeptide;
KW tumour necrosis factor-alpha; TNF-alpha; chondrocyte cell; tumour;
KW cancer; adrenal; lung; colon; breast; prostate; rectum; kidney; cervix;
KW liver; microvascular endothelial cell; glucose; FFA;
KW skeletal muscle cell; adipocyte cell; pericyte cell;
KW inner ear utricular supporting cell; T-lymphocyte cell;
KW endothelial cell tube formation; bone disorder; cartilage disorder;
KW sports injury; proteoglycan; articular cartilage defect; osteoarthritis;
KW rheumatoid arthritis; haemoglobin-associated disorder thalassemia;
KW immune system cell infiltration.
XX Homo sapiens.
XX
XX US2003199062-A1.
XX 23-OCT-2003.
XX
XX 17-APR-2002; 2002US-00124823.
XX
XX 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019130.
PR 17-SEP-1998; 98WO-US019433.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022291.
PR 29-OCT-1998; 98WO-US022292.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 10-MAR-1999; 2000WO-US006319.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 16-DEC-1999; 99WO-US028565.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 11-FEB-2000; 2000WO-US003376.
PR 18-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US023522.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032878.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006566.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.

PR 25-MAY-2001; 2001WO-US017092.
 PR 01-JUN-2001; 2001US-00872035.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 05-JUN-2001; 2001US-00874503.
 PR 14-JUN-2001; 2001US-00826636.
 PR 19-JUN-2001; 2001US-00886342.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 21-JUN-2001; 2001US-00887879.
 PR 22-JUN-2001; 2001WO-US020116.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 18-JUL-2001; 2001US-00908827.
 PR 06-AUG-2001; 2001US-00924419.
 PR 09-AUG-2001; 2001US-00927796.
 PR 16-AUG-2001; 2001US-00931836.
 PR 19-DEC-2001; 2001US-00028072.
 XX
 PA (GETH) GENENTECH INC.
 XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WL, Zhang Z;
 XX
 DR MPI; 2004-041360/04.
 DR N-ESDB; ADE89344.
 XX
 PT Novel isolated PRO polypeptide useful for treating diabetes, hyper- or
 PT hypo-insulinemia, sports injuries, arthritis, obesity, stroke, heart
 PT attack, various coagulation disorders, tumors.
 XX
 PS Claim 12; SEQ ID NO 482; 638pp; English.
 XX
 CC The invention relates to isolated human PRO polypeptides (secreted and
 CC transmembrane polypeptides) and the polynucleotides encoding them. The
 CC invention also relates to an antibody which specifically binds to a PRO
 CC polypeptide, a method for stimulating the release of tumour necrosis
 CC factor-alpha (TNF-alpha) from human blood, a method for stimulating the
 CC proliferation or differentiation of chondrocyte cells and a method for
 CC detecting the presence of a tumour in a mammal (e.g. adrenal, lung,
 CC colon, breast, prostate, rectal, kidney, cervical and liver tumours). The
 CC polynucleotides are useful in molecular biology, including uses as
 CC hybridisation probes, in chromosome and gene mapping, in generating
 CC antisense RNA and DNA and in gene therapy. The polynucleotides may also
 CC be used in preparing PRO polypeptides by recombinant techniques and in
 CC generating either transgenic animals or knock-out animals which are
 CC useful in the development and screening of therapeutically useful
 CC reagents. The PRO polypeptides or antibodies are used in preparing a
 CC medicament for treating a condition responsive to the polypeptides or
 CC antibodies, such as tumours, for stimulating and inhibiting proliferation
 CC of human microvascular endothelial cells, for modulating the uptake of
 CC glucose or FFA by skeletal muscle cells or adipocyte cells, for
 CC stimulating differentiation of adipocyte cells, for stimulating
 CC proliferation of or gene expression in pericyte cells, for stimulating
 CC the proliferation of inner ear uricular supporting cells or T-lymphocyte
 CC cells, for inducing endothelial cell tube formation and for treating
 CC various bone and/or cartilage disorders such as sports injuries and
 CC arthritis. PRO polypeptides which stimulate the release of proteoglycans
 CC from cartilage are useful for treating sports-related joint problems,
 CC articular cartilage defects, osteoarthritis and rheumatoid arthritis. PRO
 CC polypeptides are also useful for treating various mammalian haemoglobin-
 CC associated disorders such as various thalassaemias and conditions which
 CC may benefit from enhanced local immune system cell infiltration. This
 CC sequence represents a human PRO polypeptide of the invention. Note: The
 CC sequence data for this patent is also available in electronic format from
 CC USPTO at seqdata.uspto.gov/sequence.html.
 XX
 SQ Sequence 212 AA;
 Query Match 100.0%; Score 1102; DB 8; Length 212;
 Best Local Similarity 100.0%; Pred. No. 5.8e-114;
 Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 M L M L L F F L V T A I H A E L C Q P G N A F K V R L S I R T A L G D K A Y A W D T N E E Y L F K A W A F S M R K 60
 Db 1 M L M L L F F L V T A I H A E L C Q P G N A F K V R L S I R T A L G D K A Y A W D T N E E Y L F K A W A F S M R K 60
 QY 61 V P N R E A T E I S H V L L C N V T Q R V S F W F V T D P S K H T L P A V E V O S A I R K N K R I N N A P L N D 120
 Db 61 V P N R E A T E I S H V L L C N V T Q R V S F W F V T D P S K H T L P A V E V O S A I R K N K R I N N A P L N D 120
 QY 121 Q T L E F L K I P S T L A P P M D P S V P I W I I F G V I F C I I I V A I A L L I L S G I W Q R R R K N K E P S E V D 180
 Db 121 Q T L E F L K I P S T L A P P M D P S V P I W I I F G V I F C I I I V A I A L L I L S G I W Q R R R K N K E P S E V D 180
 QY 181 D A E D K C E N M I T I E N G I P S D P L D M K G G I L M M P S 212
 Db 181 D A E D K C E N M I T I E N G I P S D P L D M K G G I L M M P S 212
 RESULT 204
 ADE18484
 ID ADE18484 standard; protein; 212 AA.
 XX AC ADE18484;
 XX DT 29-JAN-2004 (first entry)
 XX DE Human PRO polypeptide #241.
 XX KW Human; PRO; secreted polypeptide; transmembrane polypeptide;
 KW tumour necrosis factor-alpha; TNF-alpha; chondrocyte cell; tumour;
 KW cancer; adrenal; lung; colon; breast; prostate; rectum; kidney; cervix;
 KW liver; microvascular endothelial cell; glucose; FFA;
 KW skeletal muscle cell; adipocyte cell; pericyte cell;
 KW inner ear uricular supporting cell; T-lymphocyte cell;
 KW endothelial cell tube formation; bone disorder; cartilage disorder;
 KW sports injury; proteoglycan; articular cartilage defect; osteoarthritis;
 KW rheumatoid arthritis; haemoglobin-associated disorder thalassaemia;
 KW immune system cell infiltration.
 XX OS Homo sapiens.
 XX FN US2003194794-A1.
 XX PD 16-OCT-2003.
 XX PP 17-APR-2002; 2002US-00125805.
 XX PR 31-MAR-1997; 97WO-US005230.
 PR 12-JUN-1998; 98WO-US012456.
 PR 14-JUL-1998; 98WO-US014552.
 PR 28-AUG-1998; 98WO-US017888.
 PR 10-SEP-1998; 98WO-US018824.
 PR 14-SEP-1998; 98WO-US019093.
 PR 14-SEP-1998; 98WO-US019094.
 PR 14-SEP-1998; 98WO-US019177.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 07-OCT-1998; 98WO-US021141.
 PR 29-OCT-1998; 98WO-US022991.
 PR 20-NOV-1998; 98WO-US024855.
 PR 01-DEC-1998; 98WO-US025108.
 PR 05-JAN-1999; 99WO-US000106.
 PR 08-MAR-1999; 99WO-US005028.
 PR 10-MAR-1999; 99WO-US005190.
 PR 10-MAR-1999; 2000WO-US006319.
 PR 20-APR-1999; 99WO-US008615.
 PR 14-MAY-1999; 99WO-US010733.
 PR 02-JUN-1999; 99WO-US012252.
 PR 01-SEP-1999; 99WO-US020111.
 PR 08-SEP-1999; 99WO-US020594.
 PR 13-SEP-1999; 99WO-US020944.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 05-OCT-1999; 99WO-US023089.

ID ADE88793 standard; protein; 212 AA.

XX AC ADE88793;

XX DT 29-JAN-2004 (first entry)

XX DE Human PRO polypeptide #241.

XX KW Humar; PRO; secreted polypeptide; transmembrane polypeptide;
 KW tumour necrosis factor-alpha; TNF-alpha; chondrocyte cell; tumour;
 KW cancer; adrenal; lung; colon; breast; prostate; rectum; kidney; cervix;
 KW liver; microvascular endothelial cell; glucose; PFA;
 KW skeletal muscle cell; adipocyte cell; pericyte cell;
 KW inner ear utricular supporting cell; T-lymphocyte cell;
 KW endothelial cell tube formation; bone disorder; cartilage disorder;
 KW sports injury; proteoglycan; articular cartilage defect; osteoarthritis;
 KW rheumatoid arthritis; haemoglobin-associated disorder thalasassaemia;
 KW immune system cell infiltration.

XX OS Homo sapiens.

XX PN US2003199054-A1.

XX PD 23-OCT-2003.

XX PF 12-APR-2002; 2002US-00121054.

XX PR 31-MAR-1997; 97WO-US005230.

PR 12-JUN-1998; 98WO-US012456.

PR 14-JUL-1998; 98WO-US014552.

PR 28-AUG-1998; 98WO-US017888.

PR 10-SEP-1998; 98WO-US018824.

PR 14-SEP-1998; 98WO-US019093.

PR 14-SEP-1998; 98WO-US019094.

PR 14-SEP-1998; 98WO-US019177.

PR 16-SEP-1998; 98WO-US019330.

PR 17-SEP-1998; 98WO-US019437.

PR 07-OCT-1998; 98WO-US021141.

PR 29-OCT-1998; 98WO-US022991.

PR 29-OCT-1998; 98WO-US022992.

PR 20-NOV-1998; 98WO-US024855.

PR 01-DEC-1998; 98WO-US025108.

PR 05-JAN-1999; 99WO-US000106.

PR 08-MAR-1999; 99WO-US005028.

PR 10-MAR-1999; 99WO-US005190.

PR 10-MAR-1999; 2000WO-US006319.

PR 20-APR-1999; 99WO-US008615.

PR 14-MAY-1999; 99WO-US010733.

PR 02-JUN-1999; 99WO-US012852.

PR 01-SEP-1999; 99WO-US020111.

PR 08-SEP-1999; 99WO-US020594.

PR 13-SEP-1999; 99WO-US020944.

PR 15-SEP-1999; 99WO-US021090.

PR 05-OCT-1999; 99WO-US021547.

PR 28-NOV-1999; 99WO-US023089.

PR 30-NOV-1999; 99WO-US028214.

PR 30-NOV-1999; 99WO-US028313.

PR 01-DEC-1999; 99WO-US028409.

PR 01-DEC-1999; 99WO-US028301.

PR 02-DEC-1999; 99WO-US028634.

PR 02-DEC-1999; 99WO-US028551.

PR 02-DEC-1999; 99WO-US028564.

PR 02-DEC-1999; 99WO-US028565.

PR 16-DEC-1999; 99WO-US030095.

PR 20-DEC-1999; 99WO-US030911.

PR 20-DEC-1999; 99WO-US030999.

PR 22-DEC-1999; 99WO-US030720.

PR 30-DEC-1999; 99WO-US031243.

PR 30-DEC-1999; 99WO-US031274.

PR 03-JAN-2000; 2000WO-US000219.

PR 06-JAN-2000; 2000WO-US000277.

PR 06-JAN-2000; 2000WO-US000376.

PR 11-FEB-2000; 2000WO-US003565.

PR 18-FEB-2000; 2000WO-US004341.
 PR 18-FEB-2000; 2000WO-US004342.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US004914.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 01-MAR-2000; 2000WO-US005601.
 PR 02-MAR-2000; 2000WO-US005746.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 15-MAR-2000; 2000WO-US006884.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 21-MAR-2000; 2000WO-US007532.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 10-NOV-2000; 2000WO-US030873.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 20-DEC-2000; 2000WO-US032678.
 PR 20-DEC-2000; 2000WO-US034956.
 PR 28-FEB-2001; 2001US-00796498.
 PR 28-FEB-2001; 2001US-00806520.
 PR 01-MAR-2001; 2001WO-US006666.
 PR 09-MAR-2001; 2001US-0080706.
 PR 14-MAR-2001; 2001US-00808689.
 PR 22-MAR-2001; 2001US-00816744.
 PR 05-APR-2001; 2001US-00828366.
 PR 10-MAY-2001; 2001US-00854208.
 PR 10-MAY-2001; 2001US-00854280.
 PR 18-MAY-2001; 2001US-00860216.
 PR 25-MAY-2001; 2001US-00866028.
 PR 25-MAY-2001; 2001US-00866034.
 PR 25-MAY-2001; 2001WO-US017092.
 PR 01-JUN-2001; 2001US-00872035.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 05-JUN-2001; 2001US-00874503.
 PR 14-JUN-2001; 2001US-00882636.
 PR 19-JUN-2001; 2001US-00886342.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 21-JUN-2001; 2001US-00887879.
 PR 23-JUN-2001; 2001WO-US020116.
 PR 28-JUN-2001; 2001WO-US021066.
 PR 03-JUL-2001; 2001WO-US021735.
 PR 18-JUL-2001; 2001US-00908827.
 PR 06-AUG-2001; 2001US-00924419.
 PR 09-AUG-2001; 2001US-00927796.
 PR 16-AUG-2001; 2001US-00931836.
 PR 19-DEC-2001; 2001US-00028072.

(GETH) GEMENTECH INC.

Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
 Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;

WPI: 2004-041356/04.

N-PSDB; ADE88792.

Novel secreted and transmembrane polypeptides, PRO useful for treating
 bone disorders, arthritis, heart attack, injuries, tumors, and
 stimulating release of TNF-alpha from human blood.

Claim 12; SEQ ID NO 482; 639pp; English.

The invention relates to isolated human PRO polypeptides (secreted and
 transmembrane polypeptides) and the polynucleotides encoding them. The
 invention also relates to an antibody which specifically binds to a PRO
 polypeptide, a method for stimulating the release of tumour necrosis

factor-alpha (TNF-alpha) from human blood, a method for stimulating the proliferation or differentiation of chondrocyte cells and a method for detecting the presence of a tumour in a mammal (e.g. adrenal, lung, colon, breast, prostate, rectal, kidney, cervical and liver tumours). The polynucleotides are useful in molecular biology, including uses as hybridisation probes in chromosome and gene mapping, in generating antisense RNA and DNA and in gene therapy. The polynucleotides may also be used in preparing PRO polypeptides by recombinant techniques and in generating either transgenic animals or knock-out animals which are useful in the development and screening of therapeutically useful reagents. The PRO polypeptides or antibodies are used in preparing a medicament for treating a condition responsive to the polypeptides or antibodies, such as tumours, for stimulating and inhibiting proliferation of human microvascular endothelial cells, for modulating the uptake of glucose or FFA by skeletal muscle cells or adipocyte cells, for stimulating differentiation of adipocyte cells, for stimulating the proliferation of or gene expression in pericyte cells, for stimulating the proliferation of inner ear utricular supporting cells or T-lymphocyte cells, for inducing endothelial cell tube formation and for treating various bone and/or cartilage disorders such as sports injuries and arthritis. PRO polypeptides which stimulate the release of proteoglycans from cartilage are useful for treating sports-related joint problems. CC articular cartilage defects, osteoarthritis and rheumatoid arthritis. PRO polypeptides are also useful for treating various mammalian haemoglobin-associated disorders such as various thalassaemias and conditions which may benefit from enhanced local immune system cell infiltration. This CC sequence represents a human PRO polypeptide of the invention. Note: The CC sequence data for this patent is also available in electronic format from CC USPTO at seqdata.uspto.gov/sequence.html.

XX Sequence 212 AA;

Query Match 100.0%; Score 1102; DB 8; Length 212;
Best Local Similarity 100.0%; Pred. No. 5,8e-114;
Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLWLLFPLVTAHAELCQGAENAFKVLRSITALGDKAYANDTNEYLFKAWAFSMRK 60
DB 1 MLWLLFPLVTAHAELCQGAENAFKVLRSITALGDKAYANDTNEYLFKAWAFSMRK 60

QY 61 VFNREATEISHVLLCNVTQVSFWFVVTDPKSNHTLPAVEVQSAIRMKNRINNAFFLND 120
DB 61 VFNREATEISHVLLCNVTQVSFWFVVTDPKSNHTLPAVEVQSAIRMKNRINNAFFLND 120

QY 121 QTLFELKIPSTLAPPDPSVPIWIIIFGVIFCIIIVAIALLISGIIWQRRRNKEPSEVD 180
DB 121 QTLFELKIPSTLAPPDPSVPIWIIIFGVIFCIIIVAIALLISGIIWQRRRNKEPSEVD 180

QY 181 DAEDKCNMTIENGIPSDPLDMKGGILMPS 212
DB 181 DAEDKCNMTIENGIPSDPLDMKGGILMPS 212

RESULT 206

AAB88580

ID AAB88580 standard; protein; 222 AA.

XX AAB88580;

D7 04-JUN-2001 (first entry)

XX Human hydrophobic domain containing protein clone HP10720 #64.

XX Human; hydrophobic domain; immunosuppressant; anti-HIV; neuroprotective;
KW antianemic; vulnary; antiulcer; osteopathic; anti-inflammatory;
KW cytostatic; gene therapy; autoimmune disorder; multiple sclerosis;
KW HIV infection; anaemia; burn; ulcer; osteoporosis; tumour; wound healing;
KW inflammatory bowel disease; nutritional supplement; appetite; vaccine;
KW behavioural characteristic; immune response.

OS Homo sapiens.

XX WO200112660-A2.

PN

XX 22-FEB-2001.
PD
XX
PF 10-AUG-2000; 2000WO-JP005356.
XX
PR 17-AUG-1999; 99JP-00230344.
PR 07-SEP-1999; 99JP-00252551.
PR 01-OCT-1999; 99JP-00281132.
PR 22-OCT-1999; 99JP-00301624.
PR 04-NOV-1999; 99JP-00313877.
XX (SAGA) SAGAMI CHEM RES CENT.
PA (PROT-) PROTEGENE INC.

XX Kato S, Kimura T;

XX WPI; 2001-160059/16.

DR N-PSDB; AAF94460.

XX Human proteins with hydrophobic domains and the DNAs which encode them are useful for treating autoimmune disorders, burns and tumors and for screening novel pharmaceuticals.

XX Claim 1; Page 354-355; 518pp; English.

XX AAF94417 to AAF94516 encode the human proteins given in AAB88557 to AAB88606 (I) which have a hydrophobic domain. (I) have immunosuppressant, anti-HIV, neuroprotective, antianemic, vulnary, antiulcer, osteopathic, anti-inflammatory and cytostatic activities, and can be used in gene therapy. (I) can be used as pharmaceuticals and as antigens to prepare antibodies. DNA and cDNA (II) encoding (I) can be used as probes for genetic diagnosis and gene sources for gene therapy or for producing (I) in large quantities. Cells containing (II) are used for the detection of ligands or receptors corresponding to membrane or secretory proteins and to screen small molecule novel pharmaceuticals. Antibodies directed to (I) can be used for the detection, quantification and purification of (I). Activities of (I) may include cytokine and cell proliferation/differentiation function, immune stimulating or suppressing activity, hematopoiesis regulating activity, tissue growth activity, activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, receptor/ligand activity and anti-inflammatory activity. (I) and (II) can be used to treat autoimmune disorders e.g. multiple sclerosis, HIV infections, anaemia, burns, ulcers, osteoporosis, inflammatory bowel disease and tumours. (I) and (II) can also be used for wound healing, as nutritional sources or supplements e.g. as amino acid, carbon or nitrogen source, to effect metabolism, catabolism, anabolism, processing and utilisation of dietary fat, protein, carbohydrate, vitamins and minerals, to effect behavioural characteristics, to affect appetite, and can act as antigens in vaccines to raise an immune response to the protein or another material cross-reactive with the protein

XX Sequence 222 AA;

Query Match 97.4%; Score 1073; DB 4; Length 222;

Best Local Similarity 100.0%; Pred. No. 1e-110;

Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLWLLFPLVTAHAELCQGAENAFKVLRSITALGDKAYANDTNEYLFKAWAFSMRK 60

DB 1 MLWLLFPLVTAHAELCQGAENAFKVLRSITALGDKAYANDTNEYLFKAWAFSMRK 60

QY 61 VFNREATEISHVLLCNVTQVSFWFVVTDPKSNHTLPAVEVQSAIRMKNRINNAFFLND 120

DB 61 VFNREATEISHVLLCNVTQVSFWFVVTDPKSNHTLPAVEVQSAIRMKNRINNAFFLND 120

QY 121 QTLFELKIPSTLAPPDPSVPIWIIIFGVIFCIIIVAIALLISGIIWQRRRNKEPSEVD 180

DB 121 QTLFELKIPSTLAPPDPSVPIWIIIFGVIFCIIIVAIALLISGIIWQRRRNKEPSEVD 180

QY 181 DAEDKCNMTIENGIPSDPLDMKGG 206

DB 181 DAEDKCNMTIENGIPSDPLDMKGG 206

RESULT 207
ADA56986
ID ADA56986 standard; protein; 222 AA.
XX
AC ADA56986;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human secreted protein #269.
XX
KW immunosuppressive; antiinflammatory; antiasthmatic; antiallergic;
XX
KW cytosolic; cerebroprotective; neuroprotective; nootropic;
KW cardiovascular; antiarteriosclerotic; gene therapy;
KW human secreted protein; immune disorder; inflammation;
KW respiratory disorder; cancer; CNS disorder; neurodegenerative disorders;
KW inflammatory bowel disease; nephritis; Crohn's disease; asthma; allergy;
KW multiple sclerosis; ischaemic brain injury; Parkinson's disease;
KW Alzheimer's disease; atherosclerosis; myocarditis; chromosome mapping;
KW triple helix formation; antisense gene therapy; forensic biology.
XX
OS Homo sapiens.
XX
FN WO2002102994-A2.
XX
PD 27-DEC-2002.
XX
PF 19-MAR-2002; 2002WO-US008278.
XX
PR 21-MAR-2001; 2001US-0277340P.
PR 19-JUL-2001; 2001US-0306171P.
PR 13-NOV-2001; 2001US-0331287P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM;
XX
XX WPI; 2003-167512/16.
XX
XX N-PSDE; ADA5690.
XX
PT New human secreted polypeptides and polynucleotides, useful for
PT diagnosing, treating or preventing e.g. immune disorders, inflammatory
PT conditions, respiratory disorders, cancers, CNS disorders, or
PT neurodegenerative disorders.
XX
PS Claim 13; SEQ ID NO 1176; 1754pp; English.
XX
XX The invention relates to 592 new human secreted polypeptides useful for
CC diagnosing, treating or preventing e.g. immune disorders, inflammatory
CC conditions, respiratory disorders, cancers, CNS disorders, or
CC neurodegenerative disorders, or polypeptides comprising an amino acid
CC sequence at least 95% identical to the new sequences. The polypeptides,
CC antibodies or antibody fragments that bind to the polypeptides, nucleic
CC acids encoding the polypeptides, agonists or antagonists that binds to
CC the polypeptide, are useful in preparing diagnostic or pharmaceutical
CC compositions for diagnosing, treating or preventing an e.g. immune
CC disorders, inflammatory conditions (e.g. inflammatory bowel disease,
CC nephritis or Crohn's disease), respiratory disorders (e.g. asthma and
CC allergy), cancers (e.g. gastric, ovarian or lung cancer), CNS disorders
CC (e.g. multiple sclerosis or ischaemic brain injury), neurodegenerative
CC disorders (e.g. Parkinson's disease or Alzheimer's disease), and
CC cardiovascular disorders (e.g. atherosclerosis or myocarditis). The
CC polynucleotides are useful for chromosome identification, chromosome
CC mapping, for controlling gene expression through triple helix formation
CC or antisense DNA or RNA, in gene therapy, for identifying individuals
CC from minute biological samples, in forensic biology, and as hybridization
CC probes. The polypeptides are useful for as molecular weight markers on
CC sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE)
CC gels, to raise antibodies, for testing biological activities, and for
CC treating or preventing neural disorders, immune system disorders,
CC muscular, reproductive, gastrointestinal, pulmonary, cardiovascular,
CC renal, proliferative and/or cancerous diseases. This sequence corresponds
CC to one of the polypeptide of the invention. Note: The sequence data for

CC this patent did form part of the printed specification, but was obtained
CC in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 222 AA;
XX
Query Match 97.4%; Score 1073; DB 6; Length 222;
Best Local Similarity 100.0%; Pred. No. 1e-110;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 MLWLLPFLVTAIHAEICQFGAENAFKVLRSIRITALGDKAYAMDTNEEYLFKAMVAFSMRX 60
DB 1 MLWLLPFLVTAIHAEICQFGAENAFKVLRSIRITALGDKAYAMDTNEEYLFKAMVAFSMRX 60
QY 61 VKNREATEISHVLLCNVTQVSFWFVVTDPKSNHTLPAYEVQSAIEMKNRINNAFLND 120
DB 61 VKNREATEISHVLLCNVTQVSFWFVVTDPKSNHTLPAYEVQSAIEMKNRINNAFLND 120
QY 121 QTLLEFLKIPSTLAPPMDPSVPIWIIIFGVCIIIVAIALLILSGIWQRRKNKPEVD 180
DB 121 QTLLEFLKIPSTLAPPMDPSVPIWIIIFGVCIIIVAIALLILSGIWQRRKNKPEVD 180
QY 181 DABDKCENMITIENGIPSDPLDMKGG 206
DB 181 DABDKCENMITIENGIPSDPLDMKGG 206
XX
RESULT 208
ADA40837
ID ADA40837 standard; protein; 222 AA.
XX
AC ADA40837;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human secreted protein.
XX
KW Human; secreted protein; cancer; hyperproliferative disorder;
KW rheumatoid arthritis; autoimmune disorder; haematopoietic disorder;
KW anaemia; allergic reaction; asthma; cardiovascular disorder;
KW wound healing; cytostatic; immunosuppressive; nootropic; neuroprotective;
KW antiviral; antiallergic; hepatotropic; antidiabetic; antiinflammatory;
KW vulnery; cardiant; gene therapy.
XX
OS Homo sapiens.
XX
FN WO2002102993-A2.
XX
PD 27-DEC-2002.
XX
PF 19-MAR-2002; 2002WO-US008123.
XX
PR 21-MAR-2001; 2001US-0277340P.
PR 19-JUL-2001; 2001US-0306171P.
PR 13-NOV-2001; 2001US-0331287P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM;
XX
XX WPI; 2003-175238/17.
XX
XX New human secreted proteins and nucleic acid molecules, useful for
PT preparing a diagnostic or pharmaceutical composition for diagnosing,
PT preventing or treating cancer or other hyperproliferative disorder,
PT asthma, allergies or AIDS.
XX
PS Claim 1; SEQ ID NO 1219; 3205pp; English.
XX
XX The invention relates to novel genes ADA39629-ADA40565 and proteins
CC ADA40566-ADA41501 for human secreted proteins, useful for preventing,
CC treating or ameliorating medical conditions e.g. by protein or gene
CC therapy. The polypeptides, nucleic acid molecules, antibodies or their

CC fragments, and agonists or antagonists that bind to the polypeptide are
 CC useful for preparing a diagnostic or pharmaceutical composition for
 CC diagnosing or treating cancer or other hyperproliferative disorder. The
 CC polypeptides and nucleic acid molecules are also useful for detecting,
 CC preventing, diagnosing, prognosticating, treating or ameliorating cancer
 CC or other hyperproliferative disorders including neoplasms, autoimmune
 CC disorders (e.g. diabetes, rheumatoid arthritis, systemic lupus
 CC erythematosus, multiple sclerosis, autoimmune thyroiditis or haemolytic
 CC anaemia), haematopoietic or haematological disorders (e.g. anaemia,
 CC thrombocytopenia), allergic reactions including asthma or eczema,
 CC inflammatory disorders (e.g. ischaemia-reperfusion injury, inflammatory
 CC bowel disease or Crohn's disease), neurodegenerative disorders (e.g.
 CC Alzheimer's disease or Parkinson's disease), cardiovascular disorders
 CC (e.g. atherosclerosis, myocarditis), infectious diseases (bacterial,
 CC fungal or viral infections including HIV/AIDS), or wound healing and
 CC disorders of epithelial cell proliferation. The nucleic acids are also
 CC useful for chromosome identification, radiation weight mapping or long-
 CC range restriction mapping, as molecular weight markers, or as
 CC hybridization or diagnostic probes. The polypeptides and antibodies are
 CC useful for providing immunological probes for differential identification
 CC of the tissues immunohistochemistry assays. Note: The sequence data for
 CC this patent did not form part of the printed specification, but was
 CC obtained in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 222 AA;

Query Match 97.4%; Score 1073; DB 6; Length 222;
 Best Local Similarity 100.0%; Pred. No. 1e-110;
 Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLWLLPFLVTAIHAELCQPGAEAFKVRISIRLTALGDKAYADTNEEYLFKAWAFSMRK 60
 DB 1 MLWLLPFLVTAIHAELCQPGAEAFKVRISIRLTALGDKAYADTNEEYLFKAWAFSMRK 60
 QY 61 VNRREATEISHVLLCNVTQVSFWFVVDPSKNHTLPAVEVQSARIMKNKRNINNAFFLND 120
 DB 61 VNRREATEISHVLLCNVTQVSFWFVVDPSKNHTLPAVEVQSARIMKNKRNINNAFFLND 120
 QY 121 QTLLEFKIPSTLAPMDPSVPIIIFGVIFCIIIVAIALLILSGIWQRRRNKKEPSEVD 180
 DB 121 QTLLEFKIPSTLAPMDPSVPIIIFGVIFCIIIVAIALLILSGIWQRRRNKKEPSEVD 180
 QY 181 DAEDKCNMTIENGIPSPDLMDKGG 206
 DB 181 DAEDKCNMTIENGIPSPDLMDKGG 206

RESULT 209
 ABR01796
 ID ABR01796 standard; protein; 222 AA.
 XX
 AC ABR01796;
 XX
 DT 19-MAY-2003 (first entry)
 DE Human cancer-related protein, 156pD4.
 DE Human; cytostatic; vaccine; cancer; immune response.
 XX Homo sapiens.
 OS
 XX WO200283921-A2.
 PN
 XX 24-OCT-2002.
 XX
 XX 10-APR-2002; 2002WO-US011654.
 XX
 XX 10-APR-2001; 2001US-0282739P.
 PR 10-APR-2001; 2001US-0283112P.
 PR 25-APR-2001; 2001US-0286630P.
 XX
 PA (AGEN-) AGENSYS INC.

XX Jakobovits A, Challita-Eid PM, Paris M, Ge W, Hubert RS;
 PI Morrison K, Morrison RK, Raitano AB;
 XX WPI; 2003-075555/07.
 DR N-PSDB; ABZ78127.
 XX
 PT New composition comprising a substance that modulates the structure of
 PT proteins and polynucleotides, useful for therapeutic, prognostic and
 PT diagnostic reagents for eliciting cellular or humoral immune response in
 PT cancer patients.
 XX
 PS Claim 12; Fig 2G; 1021pp; English.
 XX
 CC The present invention relates to novel human cancer-related genes and
 CC proteins (ABZ78120-ABZ78169 and ABR01789-ABR01861). The genes and
 CC proteins are useful for eliciting a humoral or cellular immune response.
 CC The genes are useful as probes and primers for the amplification and/or
 CC detection of genes, mRNAs or their fragments, as reagents for the
 CC diagnosis and/or prognosis of cancer, as coding sequences capable of
 CC directing the expression of the protein, as tools for modulating or
 CC inhibiting the expression of genes and/or translation of transcripts, and
 CC as therapeutic agents. The proteins and peptides are useful as
 CC therapeutic, prognostic and diagnostic reagents for cancer
 XX
 SQ Sequence 222 AA;

Query Match 97.4%; Score 1073; DB 6; Length 222;
 Best Local Similarity 100.0%; Pred. No. 1e-110;
 Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLWLLPFLVTAIHAELCQPGAEAFKVRISIRLTALGDKAYADTNEEYLFKAWAFSMRK 60
 DB 1 MLWLLPFLVTAIHAELCQPGAEAFKVRISIRLTALGDKAYADTNEEYLFKAWAFSMRK 60
 QY 61 VNRREATEISHVLLCNVTQVSFWFVVDPSKNHTLPAVEVQSARIMKNKRNINNAFFLND 120
 DB 61 VNRREATEISHVLLCNVTQVSFWFVVDPSKNHTLPAVEVQSARIMKNKRNINNAFFLND 120
 QY 121 QTLLEFKIPSTLAPMDPSVPIIIFGVIFCIIIVAIALLILSGIWQRRRNKKEPSEVD 180
 DB 121 QTLLEFKIPSTLAPMDPSVPIIIFGVIFCIIIVAIALLILSGIWQRRRNKKEPSEVD 180
 QY 181 DAEDKCNMTIENGIPSPDLMDKGG 206
 DB 181 DAEDKCNMTIENGIPSPDLMDKGG 206

RESULT 210
 ADA11613
 ID ADA11613 standard; protein; 222 AA.
 XX
 AC ADA11613;
 XX
 DT 06-NOV-2003 (first entry)
 DE Human novel secreted protein, SEQ ID NO 141.
 DE Human; inflammation; immune disorder; neurological disorder;
 KW blood clotting disorder; food additive; food preservative;
 KW storage capability; fat content; nutritional component; human;
 KW secreted protein.
 XX
 OS Homo sapiens.
 XX
 XX US2003055236-A1.
 PN
 XX 20-MAR-2003.
 XX
 XX 14-MAR-2002; 2002US-00097065.
 PP
 PR 18-DEC-1997; 97US-0068008P.
 PR 18-DEC-1997; 97US-0068007P.

PR 18-DEC-1997; 97US-0068008P.
PR 18-DEC-1997; 97US-0068003P.
PR 18-DEC-1997; 97US-00680054P.
PR 18-DEC-1997; 97US-00680057P.
PR 18-DEC-1997; 97US-00680064P.
PR 18-DEC-1997; 97US-0070923P.
PR 19-DEC-1997; 97US-0068169P.
PR 19-DEC-1997; 97US-0068365P.
PR 19-DEC-1997; 97US-0068367P.
PR 19-DEC-1997; 97US-0068368P.
PR 19-DEC-1997; 97US-0068369P.
PR 17-DEC-1998; 98WO-US027059.
PR 17-JUN-1999; 99US-00334595.
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Moore PA, Ruben SM, Carter KC, Shi Y, Rosen CA, Soppet DR;
PI Kyaw H, Wei Y, Florence KA, Duan DR, Florence C, Greene JM, Feng P;
PI Perrie AM, Yu G, Janat F, Ni J;
XX
XX WPI: 2003-567105/53.
DR N-PSDB; ADA11489.
XX
XX New secreted HKABT24 nucleic acid molecules and polypeptides, useful for
PT preventing, treating, or ameliorating a medical condition, such as
PT cancer, inflammation, immune disorders, neurological and blood clotting
PT disorders.
XX
XX Claim 11; SEQ ID NO 141; 118pp; English.
XX
XX The invention relates to an isolated HKABT24 nucleic acid molecule. The
CC polypeptides, nucleic acids and antibodies are useful for diagnosing a
CC pathological condition or a susceptibility to a pathological condition,
CC for preventing, treating, or ameliorating a medical condition, such as
CC cancer, inflammation and other immune disorders, neurological and blood
CC clotting disorders. The nucleic acids are also useful for chromosome
CC identification, radiation hybrid mapping or long-range restriction
CC mapping. The polypeptides and antibodies are useful for providing
CC immunological probes for differential identification of the tissues
CC immunohistochemistry assays. The polypeptide, polynucleotide, agonist or
CC antagonist may also be used as a food additive or preservative to
CC increase or decrease storage capabilities, fat content or other
CC nutritional components. The present sequence represents the amino acid
CC sequence of a novel human secreted protein. Note: The sequence data for
CC this patent did not form part of the printed specification but was
CC obtained in electronic format directly from USPTO at
CC seqdata.uspto.gov.uk/sequence.html?docID=20030055236.
XX
XX Sequence 222 AA;
XX
XX Query Match 97.4%; Score 1073; DB 6; Length 222;
XX Best Local Similarity 100.0%; Pred. No. 1e-110;
XX Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 MLWLLPFLVTAHAELCQPGNAFVKRLSIRLTALGDKAYAWDTNEEYLFKAMVAFSMRK 60
DB 1 MLWLLPFLVTAHAELCQPGNAFVKRLSIRLTALGDKAYAWDTNEEYLFKAMVAFSMRK 60
XX
QY 61 VPNREATEISHVLLCNVTVQVSFWFVVTDPKSKHTLPAVEVQSAIRNMKNRINNAFFLND 120
DB 61 VPNREATEISHVLLCNVTVQVSFWFVVTDPKSKHTLPAVEVQSAIRNMKNRINNAFFLND 120
XX
QY 121 QTLEFLKIPSTLAPMDPSVPWIIIFGVIFCIIIVAIALLILSGIWQRKKKEPSEVD 180
DB 121 QTLEFLKIPSTLAPMDPSVPWIIIFGVIFCIIIVAIALLILSGIWQRKKKEPSEVD 180
XX
QY 181 DAEDKCNMTIENGIPSDPLMKGG 206
DB 181 DAEDKCNMTIENGIPSDPLMKGG 206
XX
RESULT 211
ADD37902

ID ADD37902 standard; protein; 222 AA.
XX
XX ADD37902;
XX
XX 15-JAN-2004 (first entry)
XX
XX Human secreted protein #85.
XX
XX human secreted protein; Antiallergic; Antiinflammatory; Antibacterial;
XX Anti-HIV; Cytostatic; Immunosuppressive; Hemostatic.
XX
XX Homo sapiens.
XX
XX WO200290526-A2.
XX
XX 14-NOV-2002.
XX
XX 19-MAR-2002; 2002WO-US008279.
XX
XX 21-MAR-2001; 2001US-0277340P.
XX 19-JUL-2001; 2001US-0306171P.
XX 13-NOV-2001; 2001US-0331287P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Ruben SM;
XX
XX WPI; 2003-140218/13.
XX
XX New human secreted proteins and nucleic acid molecules, useful for
PT preparing a diagnostic or pharmaceutical composition for diagnosing or
PT treating allergic or asthmatic disorders, or related immediate
PT hypersensitivity disorders.
XX
XX Claim 1; SEQ ID NO 384; 1323pp; English.
XX
XX The present invention relates to an isolated polypeptide or human
CC secreted protein. The polypeptides, nucleic acid molecules, antibodies or
CC their fragments, and agonists or antagonists that bind are useful for
CC preparing a diagnostic or pharmaceutical composition for diagnosing or
CC treating allergic or asthmatic disorders. The polypeptide is also useful
CC for identifying a binding partner by contacting the polypeptide with a
CC binding partner, and determining whether the binding partner increases or
CC decreases the activity of the polypeptide. The polypeptides and nucleic
CC acid molecules are also useful for detecting, preventing, diagnosing,
CC prognosticating, treating or ameliorating inflammatory disorders
CC neoplastic diseases, wound healing and disorders of epithelial cell
CC proliferation, immune disorders, cardiovascular disorders, blood-related
CC disorders, infectious diseases, endocrine disorders, or gastrointestinal
CC disorders. The nucleic acids are also useful for chromosome
CC identification, radiation hybrid mapping or long-range restriction
CC mapping, as molecular weight markers, or as hybridization or diagnostic
CC probes. The polypeptides and antibodies are useful for providing
CC immunological probes for differential identification of the tissues
CC immunohistochemistry assays. The present sequence represents a human
CC secreted protein.
XX
XX Sequence 222 AA;
XX
XX Query Match 97.4%; Score 1073; DB 7; Length 222;
XX Best Local Similarity 100.0%; Pred. No. 1e-110;
XX Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 MLWLLPFLVTAHAELCQPGNAFVKRLSIRLTALGDKAYAWDTNEEYLFKAMVAFSMRK 60
DB 1 MLWLLPFLVTAHAELCQPGNAFVKRLSIRLTALGDKAYAWDTNEEYLFKAMVAFSMRK 60
XX
QY 61 VPNREATEISHVLLCNVTVQVSFWFVVTDPKSKHTLPAVEVQSAIRNMKNRINNAFFLND 120
DB 61 VPNREATEISHVLLCNVTVQVSFWFVVTDPKSKHTLPAVEVQSAIRNMKNRINNAFFLND 120
XX
QY 121 QTLEFLKIPSTLAPMDPSVPWIIIFGVIFCIIIVAIALLILSGIWQRKKKEPSEVD 180


```
DB 121 QTFLEFLKIPSTLAPMDPSVPIWIIIFGVIFCIIVAIALLISGIWQRRRNKEPSEVD 180
QY 181 DAEDKCNMTIENGIPSDPLDMKGG 206
DB 181 DAEDKCNMTIENGIPSDPLDMKGG 206

RESULT 212
ID AAW29670
AAW29670 standard; protein; 222 AA.
AC AAW29670;
XX
DT 09-NOV-1998 (first entry)
DE Homo sapiens clone AM42_3 secreted protein.
KW Clone; secreted protein.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 2..14
FT /note= "signal peptide"
XX
PN WO9832853-A2.
XX
PD 30-JUL-1998.
XX
PF 23-JAN-1998; 98WO-US001396.
XX
PR 24-JAN-1997; 97US-00789789.
XX
PA (GEMV ) GENETICS INST INC.
XX
PI Jacobs K, McCoy JM, Lavallie ER, Racie LA, Merberg D, Treacy M;
PI Spaulding V, Agostino MJ;
XX
DR WPI; 1998-427949/36.
DR N-PSDB; AAV40540.
XX
XX New isolated polynucleotide(s) and secreted proteins - isolated from
PT human foetal kidney, adult brain, adult salivary gland, foetal brain and
PT adult testes cDNA libraries.
XX
PS Claim 15; Page 65-66; 109pp; English.
XX
CC The sequence is that of a secreted protein. Such a protein can have
CC biological activities, e.g. nutritional activity, cytokine and cell
CC proliferation/differentiation activity, immune stimulating or suppressing
CC activity, haematopoiesis regulating activity, tissue growth activity,
CC activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, receptor/ligand activity, anti-inflammatory
CC activity, cadherin/tumour invasion suppressor activity, tumour inhibition
CC activity, and other activities
XX
SQ Sequence 222 AA;

Query Match 97.1%; Score 1070; DB 2; Length 222;
Best Local Similarity 99.5%; Pred. No. 2.2e-110;
Matches 205; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLMLLPLVTAIAELCOPGAENAFKVLRSIRLTALGDKAYADTNEIYLPKAMVAFSMRK 60
DB 1 MLMLLFLVTAIAELCOPGAENAFKVLRSIRLTALGDKAYADTNEIYLPKAMVAFSMRK 60
QY 61 VFNREATEISHVLICNVTVQSFVFTDPSKNHTLPFAVEVQSAIRMNKNRINNAFFLND 120
DB 61 VFNREATEISHVLICNVTVQSFVFTDPSKNHTLPFAVEVQSAIRMNKNRINNAFFVND 120
QY 121 QTFLEFLKIPSTLAPMDPSVPIWIIIFGVIFCIIVAIALLISGIWQRRRNKEPSEVD 180
DB 121 QTFLEFLKIPSTLAPMDPSVPIWIIIFGVIFCIIVAIALLISGIWQRRRNKEPSEVD 180
```

```
QY 181 DAEDKCNMTIENGIPSDPLDMKGG 206
DB 181 DAEDKCNMTIENGIPSDPLDMKGG 206

RESULT 213
ADE11757
ID ADE11757 standard; protein; 222 AA.
XX
AC ADE11757;
XX
DT 29-JAN-2004 (first entry)
DE Human secreted polypeptide #12.
XX
KW Secreted protein; cancer; liver disorder; hepatitis; neural disorder;
KW Alzheimer's disease; human.
XX
OS Synthetic.
OS Homo sapiens.
XX
PN US2003100051-A1.
XX
PD 29-MAY-2003.
XX
PF 10-SEP-2001; 2001US-00948783.
XX
PR 12-MAY-1998; 98US-0085093P.
PR 12-MAY-1998; 98US-0085094P.
PR 12-MAY-1998; 98US-0085105P.
PR 12-MAY-1998; 98US-0085180P.
PR 18-MAY-1998; 98US-0085908P.
PR 18-MAY-1998; 98US-0085920P.
PR 18-MAY-1998; 98US-0085921P.
PR 18-MAY-1998; 98US-0085922P.
PR 18-MAY-1998; 98US-0085923P.
PR 18-MAY-1998; 98US-0085924P.
PR 18-MAY-1998; 98US-0085925P.
PR 18-MAY-1998; 98US-0085927P.
PR 18-MAY-1998; 98US-0085928P.
PR 06-MAY-1999; 99WO-US009847.
PR 10-NOV-1999; 99US-00437658.
PR 11-SEP-2000; 2000US-0231846P.
PR 28-JUN-2001; 2001US-00892877.
XX
PA (RUBE/) RUBEN S M.
PA (FLOR/) FLORENCE K A.
PA (NIJJ/) NI J.
PA (ROSE/) ROSEN C A.
PA (CART/) CARTER K C.
PA (MOOR/) MOORE P A.
PA (OLSE/) OLSEN H S.
PA (SHIY/) SHI Y.
PA (YOUN/) YOUNG P E.
PA (WEIY/) WEI Y.
PA (BREW/) BREWER L A.
PA (SOPP/) SOPPET D R.
PA (LAFLE/) LAFLEUR D W.
PA (ENDR/) ENDRESS G A.
PA (EBNE/) EBNER R.
PA (BIRS/) BIRSE C E.
XX
XX Ruben SM, Florence KA, Ni J, Rosen CA, Carter KC, Moore PA;
PI Olsen HS, Shi Y, Young PE, Wei Y, Brewer LA, Soppet DR, Lafleur DW;
PI Endress GA, Ebner R, Birse CE;
XX
XX WPI; 2003-801210/75.
XX
XX New nucleic acid molecule, useful for preparing a medicament for
PT preventing, treating or ameliorating a medical condition e.g. cancer,
PT liver disorders or neural disorders.
XX
```

PS Claim 11; SEQ ID NO 129; 453pp; English.

XX The invention relates to human secreted polypeptides and the

CC polynucleotides encoding them. The sequences are useful for preparing

CC medicaments for preventing, treating or ameliorating medical conditions

CC e.g., cancer, liver disorders such as hepatitis or neural disorders such

CC as Alzheimer's disease. This sequence represents a human secreted

CC polypeptide of the invention.

XX

SQ Sequence 222 AA;

Query Match 96.7%; Score 1066; DB 7; Length 222;

Best Local Similarity 99.5%; Pred. No. 6.3e-110; Indels 0; Gaps 0;

Matches 205; Conservative 0; Mismatches 1;

Qy 1 MLMLFLFLVTAIHAELCQPCGAENAFKVRLSIRLTALGDKAYAWDTNEEYLFKAVAFSMRK 60

Db 1 MLMLFLFLVTAIHAELCQPCGAENAFKVRLSIRLTALGDKAYAWDTNEEYLFKAVAFSMRK 60

Qy 61 VPRREATEISHVLLCNVTQVRSFWFVVTDPSPKHTLPAYEVQSAIRMKRINNAFLND 120

Db 61 VPRREATEISHVLLCNVTQVRSFWFVVTDPSPKHTLPAYEVQSAIRMKRINNAFLNX 120

Qy 121 QTLEFLKIPSTLAPPMDPSVPWIIIFGVIFCIIIVAIALLILSGIWQRKKKEPSEVD 180

Db 121 QTLEFLKIPSTLAPPMDPSVPWIIIFGVIFCIIIVAIALLILSGIWQRKKKEPSEVD 180

Qy 181 DAEDKCNMTTIENGIPSDPLDMKGG 206

Db 181 DAEDKCNMTTIENGIPSDPLDMKGG 206

RESULT 214

AAAY76135

ID AAY76135 standard; protein; 223 AA.

AC AAY76135;

DT 23-MAR-2000 (first entry)

XX Human secreted protein encoded by gene 12.

XX Human; secreted protein; cancer; tumour; developmental abnormality;

KW foetal deficiency; blood disorder; immune system disorder; inflammation;

KW autoimmune disease; allergy; Alzheimer's disease; cognitive disorder;

KW schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder;

KW atherosclerosis; diabetes; cardiovascular disorder; kidney disorder;

KW digestive disorder; endocrine disorder; infection; AIDS; leukaemia;

KW therapy.

XX Homo sapiens.

XX WO9958660-A1.

XX 18-NOV-1999.

XX 06-MAY-1999; 99WO-US009847.

XX 12-MAY-1998; 98US-0085093P.

XX 12-MAY-1998; 98US-0085094P.

XX 12-MAY-1998; 98US-0085105P.

XX 12-MAY-1998; 98US-0085180P.

XX 18-MAY-1998; 98US-0085906P.

XX 18-MAY-1998; 98US-0085920P.

XX 18-MAY-1998; 98US-0085921P.

XX 18-MAY-1998; 98US-0085922P.

XX 18-MAY-1998; 98US-0085923P.

XX 18-MAY-1998; 98US-0085924P.

XX 18-MAY-1998; 98US-0085925P.

XX 18-MAY-1998; 98US-0085927P.

XX 18-MAY-1998; 98US-0085928P.

(HUMA-) HUMAN GENOME SCI INC.

XX Ruben SM, Florence K, Ni J, Rosen CA, Carter KC, Moore PA;

PI Olsen HS, Shi Y, Young PE, Wei F, Brewer LA, Soppet DR, Lafleur DW;

PI Endress GA, Ebner R;

XX WPI: 2000-062296/05.

DR N-PSDB; AA265261.

XX New isolated human genes and the secreted polypeptides they encode,

PT useful for diagnosis and treatment of e.g. cancers, neurological

PT disorders, immune diseases, inflammation or blood disorders.

XX Claim 11; Page 365-366; 475pp; English.

XX AA265250 to AA265350 represent 97 isolated human secreted protein genes.

CC AAY76124 to AAY76223 represent the secreted proteins encoded by the 97

CC human genes. The genes and their corresponding secreted polypeptides are

CC useful for preventing, treating or ameliorating medical conditions, e.g.

CC by protein or gene therapy. Also pathological conditions can be diagnosed

CC by determining the amount of the new polypeptides in a sample or by

CC determining the presence of mutations in the new genes. Specific uses are

CC described for each of the 97 genes, based on which tissues they are most

CC highly expressed in, and include developing products for the diagnosis or

CC treatment of cancer, tumours, developmental abnormalities and foetal

CC deficiencies, blood disorders, diseases of the immune system, autoimmune

CC diseases, inflammation, allergies, Alzheimer's and cognitive disorders,

CC schizophrenia, arthritis, asthma, psoriasis, sepsis, skin disorders,

CC atherosclerosis, diabetes, cardiovascular disorders, kidney disorders,

CC digestive/endocrine disorders, infections and AIDS. The polypeptides are

CC also useful for identifying their binding partners. The sequences shown

CC in AAY76224 to AAY76244 represent fragments of the secreted proteins

XX Sequence 223 AA;

Query Match 96.7%; Score 1066; DB 3; Length 223;

Best Local Similarity 99.5%; Pred. No. 6.3e-110; Indels 0; Gaps 0;

Matches 205; Conservative 0; Mismatches 1;

Qy 1 MLMLFLFLVTAIHAELCQPCGAENAFKVRLSIRLTALGDKAYAWDTNEEYLFKAVAFSMRK 60

Db 1 MLMLFLFLVTAIHAELCQPCGAENAFKVRLSIRLTALGDKAYAWDTNEEYLFKAVAFSMRK 60

Qy 61 VPRREATEISHVLLCNVTQVRSFWFVVTDPSPKHTLPAYEVQSAIRMKRINNAFLND 120

Db 61 VPRREATEISHVLLCNVTQVRSFWFVVTDPSPKHTLPAYEVQSAIRMKRINNAFLNX 120

Qy 121 QTLEFLKIPSTLAPPMDPSVPWIIIFGVIFCIIIVAIALLILSGIWQRKKKEPSEVD 180

Db 121 QTLEFLKIPSTLAPPMDPSVPWIIIFGVIFCIIIVAIALLILSGIWQRKKKEPSEVD 180

Qy 181 DAEDKCNMTTIENGIPSDPLDMKGG 206

Db 181 DAEDKCNMTTIENGIPSDPLDMKGG 206

RESULT 215

AAAY04156

ID AAY04156 standard; protein; 222 AA.

AC AAY04156;

XX 16-JUN-1999 (first entry)

XX Human 5' EST secreted protein SEQ ID NO:27.

XX Human; secreted protein; EST; expressed sequence tag; diagnosis;

KW forensic; gene therapy; chromosome mapping; signal peptide;

KW upstream regulatory sequence; cytokine activity; cell proliferation;

KW differentiation; haematopoiesis regulation; tissue growth regulation;

KW reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;

XX thrombolytic; anti-inflammatory; tumour inhibition.

XX Homo sapiens.

```
XX PN WO9906439-A2.
XX PD 11-FEB-1999.
XX PF 31-JUL-1998; 98WO-IB001233.
XX PR 01-AUG-1997; 97US-00904468.
XX PA (GEST ) GENSET.
XX PI Dumas Milne Edwards J, Duclert A, Lacroix B;
XX DR WPI; 1999-153700/13.
XX DR N-PSDB; AAX19983.
XX PT New nucleic acids encoding human secreted proteins - obtained from cDNA
XX PT libraries derived from liver, lung, large intestine, colon, thyroid and
XX PT pancreas tissue.
XX PS Example 28; Page 157-158; 398pp; English.
XX CC AAX40251 to AAX40397 represent 5' expressed sequence tags (ESTs) for
XX CC human secreted proteins, and encode the proteins given in AAY11533 to
XX CC AAY11675, respectively. The proteins given represent the signal peptide
XX CC and an N-terminal fragment of a secreted protein. The nucleic acid
XX CC sequences can be used for producing secreted human gene products. They
XX CC can also be used to develop products for diagnosis and therapy. The
XX CC proteins obtained may have cytokine activity, cell
XX CC proliferation/differentiation activity, haematopoiesis regulating
XX CC activity, tissue growth regulating activity, reproductive hormone
XX CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
XX CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
XX CC activity, tumour inhibition activity or other activities. The products
XX CC can be used in forensic, gene therapy and chromosome mapping procedures.
XX CC The sequences can also be used for obtaining corresponding promoter
XX CC sequences. The nucleic acids encoding the signal peptide can be used for
XX CC directing extracellular secretion of a polypeptide or the insertion of a
XX CC polypeptide into a membrane, or importing a polypeptide into a cell. The
XX CC present sequence represents the protein from a 5' EST from an example of
XX CC the present invention
XX SQ Sequence 222 AA;
Query Match 95.1%; Score 1048; DB 2; Length 222;
Best Local Similarity 98.1%; Pred. No. 6.3e-108;
Matches 202; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 MLWLLFFLVTAIHAELOCQPCGAENAFKVRISIRLTALGDKAYAWDTNBEYLFKAMVAFSMRK 60
DB 1 MLWLLFFLVTAIHAELOCQPCGAENAFKVRISIRLTALGDKAYAWDTNBEYLFKAMVAFSMRK 60
QY 61 VFNREATEISHVLLCNVTQVSFWFVVDTPSKNHTLPAVEVQSARIMKNKRNINNAFFLND 120
DB 61 VFNREATEISHVLLCNVTQVSFWFVVDTPSKNHTLPAVEVQSARIMKNKRNINNAFFLND 120
QY 121 QTLEFLKIPSTLAPPMDPSVPIWIIIFGVIFCIIVAIALLISGIWQRXKXKPSSEVD 180
DB 121 QTLEFLKIPSTLAPPMDPSVPIWIIIFGVIFCIIVAIALLISGIWQRXKXKPSSEVD 180
QY 181 DADCKCNMTIENGIPSDPLDMKGG 206
DB 181 DAEXXCENMTIENGIPSDPLDMKGG 206
RESULT 216
AAW93620
ID AAW93620 standard; protein; 222 AA.
XX AC AAW93620;
XX AC
XX UT 21-JUN-1999 (first entry)
XX
```

```
DE Human 5' EST secreted protein clone 58-35-2-F10-FL2.
XX Human; secreted protein; EST; expressed sequence tag; diagnosis;
XX forensic; gene therapy; chromosome mapping; signal peptide;
XX upstream regulatory sequence; cytokine activity; cell proliferation;
XX differentiation; haematopoiesis regulation; tissue growth regulation;
XX reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
XX thrombolytic; anti-inflammatory; tumour inhibition.
XX OS Homo sapiens.
XX PN WO9906551-A2.
XX PD 11-FEB-1999.
XX PF 31-JUL-1998; 98WO-IB001235.
XX PR 01-AUG-1997; 97US-00905133.
XX PA (GEST ) GENSET.
XX PI Dumas Milne Edwards J, Duclert A, Lacroix B;
XX DR WPI; 1999-153781/13.
XX DR N-PSDB; AAX39430.
XX PT New nucleic acids encoding human secreted - proteins obtained from cDNA
XX PT libraries prepared from substantia nigra, cerebellum, surrenals and fetal
XX PT brain tissue.
XX PS Example 28; Page 157-158; 434pp; English.
XX CC AAX39440 to AAX39597 represent 5' expressed sequence tags (ESTs) for
XX CC human secreted proteins, and encode the proteins given in AAY11374 to
XX CC AAY11531, respectively. The proteins given represent the signal peptide
XX CC and an N-terminal fragment of a secreted protein. The nucleic acid
XX CC sequences can be used for producing secreted human gene products. They
XX CC can also be used to develop products for diagnosis and therapy. The
XX CC proteins obtained may have cytokine activity, cell
XX CC proliferation/differentiation activity, haematopoiesis regulating
XX CC activity, tissue growth regulating activity, reproductive hormone
XX CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
XX CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
XX CC activity, tumour inhibition activity or other activities. The products
XX CC can be used in forensic, gene therapy and chromosome mapping procedures.
XX CC The sequences can also be used for obtaining corresponding promoter
XX CC sequences. The nucleic acids encoding the signal peptide can be used for
XX CC directing extracellular secretion of a polypeptide or the insertion of a
XX CC polypeptide into a membrane, or importing a polypeptide into a cell. This
XX CC represents a human 5' EST secreted protein encoded by AAX39430
XX SQ Sequence 222 AA;
Query Match 95.1%; Score 1048; DB 2; Length 222;
Best Local Similarity 98.1%; Pred. No. 6.3e-108;
Matches 202; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 MLWLLFFLVTAIHAELOCQPCGAENAFKVRISIRLTALGDKAYAWDTNBEYLFKAMVAFSMRK 60
DB 1 MLWLLFFLVTAIHAELOCQPCGAENAFKVRISIRLTALGDKAYAWDTNBEYLFKAMVAFSMRK 60
QY 61 VFNREATEISHVLLCNVTQVSFWFVVDTPSKNHTLPAVEVQSARIMKNKRNINNAFFLND 120
DB 61 VFNREATEISHVLLCNVTQVSFWFVVDTPSKNHTLPAVEVQSARIMKNKRNINNAFFLND 120
QY 121 QTLEFLKIPSTLAPPMDPSVPIWIIIFGVIFCIIVAIALLISGIWQRXKXKPSSEVD 180
DB 121 QTLEFLKIPSTLAPPMDPSVPIWIIIFGVIFCIIVAIALLISGIWQRXKXKPSSEVD 180
QY 181 DADCKCNMTIENGIPSDPLDMKGG 206
DB 181 DAEXXCENMTIENGIPSDPLDMKGG 206
```

RESULT 217
AAV35890
ID AAV35890 standard; protein; 222 AA.

XX AC AAV35890;
XX DT 13-SEP-1999 (first entry)
XX DE Extended human secreted protein sequence, SEQ ID NO. 27.
XX KW Secreted protein; human; cytokine; cellular proliferation; cell movement;
XX KW cellular differentiation; immune system regulator; anti-inflammatory;
XX KW haematopoiesis regulator; tissue growth regulator; tumour inhibitor;
XX KW reproductive hormone regulator; chemotaxis; chemokinesis; gene therapy;
XX KW genetic disease.

XX OS Homo sapiens.

XX PN WO9931236-A2.

XX PD 24-JUN-1999.

XX PF 17-DEC-1998; 98WO-IB002122.

XX PR 17-DEC-1997; 9TUS-0069957P.

XX PR 09-FEB-1998; 98US-0074121P.

XX PR 13-APR-1998; 98US-0081563P.

XX PR 10-AUG-1998; 98US-0096116P.

XX PA (GEST) GENSET.

XX PI Bougueleret L, Duclert A, Dumas Milne Edwards J;

XX DR WPI; 1999-385906/32.

XX DR N-PSDB; AAX97564.

XX PT New isolated human secreted proteins.

XX PS Example 28; Page 165-166; 516pp; English.

XX CC This sequence is encoded by an extended human secreted protein coding
CC sequence of the invention. The secreted proteins can be used in treating
CC or controlling a variety of human conditions. The secreted proteins may
CC act as cytokines or may affect cellular proliferation or differentiation
CC or may act as immune system regulators, haematopoiesis regulators, tissue
CC growth regulators, regulators of reproductive hormones or cell movement
CC or have chemotactic/chemokinetic, receptor/ligand, anti-inflammatory or
CC tumour inhibition activity. The DNAs can be used in forensic procedures
CC to identify individuals or in diagnostic procedures to identify
CC individuals having genetic diseases resulting from abnormal expression of
CC the genes corresponding to the extended cDNAs. They are also useful for
CC constructing a high resolution map of the human chromosomes. They can
CC also be used for gene therapy to control or treat genetic diseases

XX SQ Sequence 222 AA;

Query Match 95.1%; Score 1048; DB 2; Length 222;
Best Local Similarity 98.1%; Pred. No. 6.3e-108;
Matches 202; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MLWLLFFVTAHAELOQPGHNAFKVLSRTALGDKAYAWDTNEEYLFKAWVAPSKRK 60
DB 1 MLWLLFFVTAHAELOQPGHNAFKVLSRTALGDKAYAWDTNEEYLFKAWVAPSKRK 60
QY 61 VPNEATEISHVLLCNVTRQVSFFVVDPSKNHTLPAVEVQSAIRMNKRNINNAFFLND 120
DB 61 VPNEATEISHVLLCNVTRQVSFFVVDPSKNHTLPAVEVQSAIRMNKRNINNAFFLND 120

QY 121 QTLFPLKIPSTLAPMPDSVPVWIIIFGVICIIIVAIALLISGIWRRKKNPESEVD 180
DB 121 QTLFPLKIPSTLAPMPDSVPVWIIIFGVICIIIVAIALLISGIWRRKKNPESEVD 180

QY 181 DAEDKCNMTIENGIPSDPLDKGG 206
DB 181 DAEXXCENMTIENGIPSDPLDKGG 206

RESULT 218
AAV59653

ID AAV59653 standard; protein; 222 AA.

XX AC AAV59653;

XX DT 18-JAN-2000 (first entry)

XX DE Secreted protein extended EST protein sequence #6.

XX KW Secreted protein; fingerprint identification technique;
XX KW chromosome mapping; human; hereditary disease; diagnosis; cancer;
XX KW hyperlipidaemia; cardiovascular; neurodegenerative disorder; therapy;
XX KW autoimmune disease; rheumatic disease; embryogenic disorder; myopathy;
XX KW renal injury; amino aciduria; hypoglycaemia; male rat infertility;
XX KW hypertension.

XX OS Homo sapiens.

XX PN WO9940189-A2.

XX PD 12-AUG-1999.

XX PF 09-FEB-1999; 99WO-IB000282.

XX PR 09-FEB-1998; 98US-0074121P.

XX PR 13-APR-1998; 98US-0081563P.

XX PR 10-AUG-1998; 98US-0096116P.

XX PR 04-SEP-1998; 98US-0099273P.

XX PA (GEST) GENSET.

XX PI Bougueleret L, Duclert A, Dumas Milne Edwards J;

XX DR WPI; 1999-600966/51.

XX DR N-PSDB; AAZ40770.

XX FT Extended cDNAs useful for expressing secreted proteins and to obtain
XX specific antibodies.

XX PS Example 28; Page 141-142; 244pp; English.

XX CC This sequence is encoded by a fragment of a nucleic acid sequence of the
CC invention. The invention relates to 70 nucleic acids encoding human
CC secreted proteins. The extended cDNAs (or genomic DNAs obtainable from
CC them) may be used to prepare PCR primers and probes. These are useful for
CC forensic matching or positive identification by DNA sequencing. They may
CC also be used in alternative fingerprint identification techniques.
CC Antibodies against the proteins encoded by the extended cDNAs are useful
CC in identification of tissue types or cell species, as well as identifying
CC tissue specific soluble proteins. The sequences can be used for
CC chromosome mapping and identification of genes associated with hereditary
CC diseases or drug response. Signal sequences from the cDNAs can be used in
CC construction of secretion vectors. Other sequences derived from the
CC extended cDNAs can be used to clone upstream genomic DNA sequences
CC including promoters. This is in turn useful for identifying proteins that
CC interact with promoter sequences. Some of the proteins may be useful in
CC diagnosing and treating several disorders including, but not limited to:
CC cancer, hyperlipidaemia, cardiovascular and neurodegenerative disorders,
CC autoimmune diseases, and rheumatic diseases, embryogenic disorders,
CC hypertension, renal injury, amino acidurias, hypoglycaemia, male rat
CC infertility and myopathies

XX SQ Sequence 222 AA;

Query Match 95.1%; Score 1048; DB 2; Length 222;
Best Local Similarity 98.1%; Pred. No. 6.3e-108;
Matches 202; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

CC sequences. The nucleic acids encoding the signal peptide can be used for
 CC directing extracellular secretion of a polypeptide or the insertion of a
 CC polypeptide into a membrane, or importing a polypeptide into a cell
 XX
 SQ Sequence 222 AA;

Query Match 95.1%; Score 1048; DB 2; Length 222;
 Best Local Similarity 98.1%; Pred. NO. 6.3e-108;
 Matches 202; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MLWLLFFLVTAHAELCPGAEAFKRLSIRLTALGDKAYAWDTNEEYLFKAWAFSMRK 60
 DB 1 MLWLLFFLVTAHAELCPGAEAFKRLSIRLTALGDKAYAWDTNEEYLFKAWAFSMRK 60
 QY 61 VFNREATEISHVLLCNVTQVSFWFVVTDPSPKXNHTLPAVEVQSAIRMNKNRINNAFFLND 120
 DB 61 VFNREATEISHVLLCNVTQVSFWFVVTDPSPKXNHTLPAVEVQSAIRMNKNRINNAFFLND 120
 QY 121 QTLFELKIPSTLAPPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWRRRKXNKEPSEVD 180
 DB 121 QTLFELKIPSTLAPPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWRRRKXNKEPSEVD 180
 QY 181 DAEDKCNMTIENGIPSPDLDMKGG 206
 DB 181 DAEXXCENMTIENGIPSPDLDMKGG 206

RESULT 219
 AAY01594
 ID AAY01594 standard; protein; 222 AA.
 AC AAY01594;
 DT 18-JUN-1999 (first entry);
 DE Secreted protein encoded by an extended 5' EST cDNA sequence.
 DE Human; secreted protein; EST; expressed sequence tag; diagnosis;
 KW forensic; gene therapy; chromosome mapping; signal peptide;
 KW upstream regulatory sequence; cytokine activity; cell proliferation;
 KW differentiation; haematopoiesis regulation; tissue growth regulation;
 KW reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
 KW thrombolytic; anti-inflammatory; tumour inhibition.
 OS Homo sapiens.
 XX WO9906554-A2.
 PN 11-FEB-1999.
 PD 31-JUL-1998; 98WO-IB001238.
 PF 01-AUG-1997; 97US-00905134.
 PR (GEST) GENSET.
 PA Dumas Milne Edwards J, Duclert A, Lacroix B;
 PI WPI; 1999-153784/13.
 DR N-PSDB; AAX26672.
 XX New nucleic acids encoding human secreted proteins - obtained from cDNA
 PT libraries prepared from kidney, fetal kidney, dystrophic muscle, muscle
 PT and heart tissue.
 XX Example 28; Page 161-161; 622pp; English.
 XX The present sequence is encoded by an extended cDNA sequence derived from
 CC a 5' EST encoding a secreted protein. The specification describes 5'
 CC expressed sequence tags (ESTs, see AAX40826-X41093) for human secreted
 CC proteins (see AAY01602 and AAY11994-Y12260). The proteins given represent
 CC the signal peptide and an N-terminal fragment of a secreted protein. The
 CC nucleic acid sequences can be used for producing secreted human gene
 CC products. They can also be used to develop products for diagnosis and
 CC therapy. The proteins obtained may have cytokine activity, cell
 CC proliferation/differentiation activity, haematopoiesis regulating
 CC activity, tissue growth regulating activity, reproductive hormone
 CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
 CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
 CC activity, tumour inhibition activity or other activities. The products
 CC can be used in forensic, gene therapy and chromosome mapping procedures.
 CC The sequences can also be used for obtaining corresponding promoter

CC sequences. The nucleic acids encoding the signal peptide can be used for
 CC directing extracellular secretion of a polypeptide or the insertion of a
 CC polypeptide into a membrane, or importing a polypeptide into a cell
 XX
 SQ Sequence 222 AA;

Query Match 95.1%; Score 1048; DB 2; Length 222;
 Best Local Similarity 98.1%; Pred. NO. 6.3e-108;
 Matches 202; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MLWLLFFLVTAHAELCPGAEAFKRLSIRLTALGDKAYAWDTNEEYLFKAWAFSMRK 60
 DB 1 MLWLLFFLVTAHAELCPGAEAFKRLSIRLTALGDKAYAWDTNEEYLFKAWAFSMRK 60
 QY 61 VFNREATEISHVLLCNVTQVSFWFVVTDPSPKXNHTLPAVEVQSAIRMNKNRINNAFFLND 120
 DB 61 VFNREATEISHVLLCNVTQVSFWFVVTDPSPKXNHTLPAVEVQSAIRMNKNRINNAFFLND 120
 QY 121 QTLFELKIPSTLAPPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWRRRKXNKEPSEVD 180
 DB 121 QTLFELKIPSTLAPPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWRRRKXNKEPSEVD 180
 QY 181 DAEDKCNMTIENGIPSPDLDMKGG 206
 DB 181 DAEXXCENMTIENGIPSPDLDMKGG 206

RESULT 220
 AAY12986
 ID AAY12986 standard; protein; 222 AA.
 AC AAY12986;
 DT 22-JUN-1999 (first entry);
 DE Human secreted protein encoded by 5' EST clone 58-35-2-F10-FL2.
 DE Human; secreted protein; EST; expressed sequence tag; diagnosis;
 KW forensic; gene therapy; chromosome mapping; signal peptide;
 KW upstream regulatory sequence; cytokine activity; cell proliferation;
 KW differentiation; haematopoiesis regulation; tissue growth regulation;
 KW reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
 KW thrombolytic; anti-inflammatory; tumour inhibition.
 OS Homo sapiens.
 XX WO9906552-A2.
 PN 11-FEB-1999.
 PD 31-JUL-1998; 98WO-IB001236.
 PF 01-AUG-1997; 97US-00905223.
 PR (GEST) GENSET.
 PA Dumas Milne Edwards J, Duclert A, Lacroix B;
 PI WPI; 1999-153782/13.
 DR N-PSDB; AAX51777.
 XX New isolated brain-derived nucleic acids - used to develop products which
 CC may have cytokine, immune, regulatory, haematopoiesis regulating, anti-
 CC inflammatory or tumour inhibition activity.
 CC Example 28; Page 159-160; 577pp; English.
 XX AAX51787 to AAX52019 represent 5' expressed sequence tags (ESTs) for
 CC human secreted proteins, and encode the proteins given in AAY12987 to
 CC AAY13219, respectively. The proteins given represent the signal peptide
 CC and an N-terminal fragment of a secreted protein. The nucleic acid
 CC sequences can be used for producing secreted human gene products. They
 CC can also be used to develop products for diagnosis and therapy. The

CC proteins obtained may have cytokine activity, cell
 CC proliferation/differentiation activity, haematopoiesis regulating
 CC activity, tissue growth regulating activity, reproductive hormone
 CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
 CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
 CC activity, tumour inhibition activity or other activities. The products
 CC can be used in forensic, gene therapy and chromosome mapping procedures.
 CC The sequences can also be used for obtaining corresponding promoter
 CC sequences. The nucleic acids encoding the signal peptide can be used for
 CC directing extracellular secretion of a polypeptide or the insertion of a
 CC polypeptide into a membrane, or importing a polypeptide into a cell. This
 CC sequence represents the human secreted protein encoded by 5' EST clone 58
 CC -35-2-F10-FL2
 XX
 XX

SQ Sequence 222 AA;

Query Match 95.1%; Score 1048; DB 2; Length 222;
 Best Local Similarity 98.1%; Pred. No. 6.3e-108;
 Matches 202; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY 1 MLWLLPFLVTAIHAEELQCPGAENAFKVLRSIRLTALGDKAYAWDTNBEYLFKAMVAFSMRK 60
 DB 1 MLWLLPFLVTAIHAEELQCPGAENAFKVLRSIRLTALGDKAYAWDTNBEYLFKAMVAFSMRK 60
 QY 61 VPAREATEISHVLLCNVTQVSFVFVTDPSKNTLPAVEVQSAIRNKNRINNAFFLND 120
 DB 61 VPAREATEISHVLLCNVTQVSFVFVTDPSKNTLPAVEVQSAIRNKNRINNAFFLND 120
 QY 121 QTLEFLKIPSTLAPMPDPSVPIWIIIFGVIFCIIIVAIALLLSGIWQRXKNKEPSEVD 180
 DB 121 QTLEFLKIPSTLAPMPDPSVPIWIIIFGVIFCIIIVAIALLLSGIWQRXKNKEPSEVD 180
 QY 181 DAEDKCNMTIENGIPSDPLDMKGG 206
 DB 181 DAEXXCENMTIENGIPSDPLDMKGG 206

RESULT 221

AAAY25459
 ID AAY25459 standard; protein; 222 AA.

XX AC AAY25459;

XX DT 23-SEP-1999 (first entry)

XX DE Human secreted protein 6 derived from extended cDNA.

XX KW Secreted protein; human; cytostatic; thrombotic; osteopathic; forensic;
 XX KW diagnostic; gene therapy; chromosome mapping; secretion vector.

XX OS Homo sapiens.

XX PN W09925825-A2.

XX PD 27-MAY-1999.

XX PF 13-NOV-1998; 98WO-IB001862.

XX PR 13-NOV-1997; 97US-0066677P.

XX PR 17-DEC-1997; 97US-0069957P.

XX PR 09-FEB-1998; 98US-0074121P.

XX PR 13-APR-1998; 98US-0081563P.

XX PR 10-AUG-1998; 98US-0096116P.

XX PR 04-SEP-1998; 98US-0099273P.

XX PA (GEST) GENSET.

XX PI Bougueleret L, Duclert A, Dumas Milne Edwards J;

XX DR WPI; 1999-347472/29.

XX DR N-PSDB; AAX88191.

XX XX Extended cDNAs encoding secreted proteins.
 PT

XX PS

XX CC Example 28; Page 138; 307pp; English.

XX CC This invention describes novel nucleic acid sequences of extended cDNAs
 CC (see AAX57813-X97906) which encode human secreted proteins (see AAY36129-
 CC Y36222) and which have cytostatic, thrombotic and osteopathic activity.
 CC The extended cDNAs can be used to express secreted proteins or parts of
 CC them or to obtain antibodies capable of binding to the secreted proteins.
 CC They may also be used in diagnostic, forensic, gene therapy and
 CC chromosome mapping procedures. Uses also include design of expression
 CC vectors and secretion vectors. This sequence represents a secreted
 CC protein derived from extended cDNA which is used in the method of the
 CC invention
 XX
 XX

SQ Sequence 222 AA;

Query Match 95.1%; Score 1048; DB 2; Length 222;
 Best Local Similarity 98.1%; Pred. No. 6.3e-108;
 Matches 202; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY 1 MLWLLPFLVTAIHAEELQCPGAENAFKVLRSIRLTALGDKAYAWDTNBEYLFKAMVAFSMRK 60
 DB 1 MLWLLPFLVTAIHAEELQCPGAENAFKVLRSIRLTALGDKAYAWDTNBEYLFKAMVAFSMRK 60
 QY 61 VPAREATEISHVLLCNVTQVSFVFVTDPSKNTLPAVEVQSAIRNKNRINNAFFLND 120
 DB 61 VPAREATEISHVLLCNVTQVSFVFVTDPSKNTLPAVEVQSAIRNKNRINNAFFLND 120
 QY 121 QTLEFLKIPSTLAPMPDPSVPIWIIIFGVIFCIIIVAIALLLSGIWQRXKNKEPSEVD 180
 DB 121 QTLEFLKIPSTLAPMPDPSVPIWIIIFGVIFCIIIVAIALLLSGIWQRXKNKEPSEVD 180
 QY 181 DAEDKCNMTIENGIPSDPLDMKGG 206
 DB 181 DAEXXCENMTIENGIPSDPLDMKGG 206

RESULT 222

AAAY12680
 ID AAY12680 standard; peptide; 222 AA.

XX AC AAY12680;

XX DT 21-JUN-1999 (first entry)

XX DE Human 5' EST secreted protein.

XX KW Human; secreted protein; EST; expressed sequence tag; diagnosis;
 XX KW forensic; gene therapy; chromosome mapping; signal peptide;
 XX KW upstream regulatory sequence; cytokine activity; cell proliferation;
 XX KW differentiation; haematopoiesis regulation; tissue growth regulation;
 XX KW reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
 XX KW thrombolytic; anti-inflammatory; tumour inhibition.

XX OS Homo sapiens.

XX PN W09906549-A2.

XX PD 11-FEB-1999.

XX PF 31-JUL-1999; 98WO-IB001231.

XX PR 01-AUG-1997; 97US-00905279.

XX PA (GEST) GENSET.

XX PI Dumas Milne Edwards J, Duclert A, Lacroix B;

XX DR WPI; 1999-153779/13.

XX DR N-PSDB; AAX51449.

XX XX New nucleic acids encoding human secreted proteins - obtained from cDNA
 PT libraries derived from testis, ovary, uterus and spleen tissue.

XX PS Example 28; Page 159-160; 522pp; English.

XX CC AAX51459 to AAX51691 represent 5' expressed sequence tags (ESTs) for

XX CC human secreted proteins, and encode the proteins given in AAX12481 to

XX CC AAX12913, respectively. The proteins given represent the signal peptide

XX CC and an N-terminal fragment of a secreted protein. The nucleic acid

XX CC sequences can be used for producing secreted human gene products. They

XX CC can also be used to develop products for diagnosis and therapy. The

XX CC proteins obtained may have cytokine activity, cell

XX CC proliferation/differentiation activity, haematopoiesis regulating

XX CC activity, tissue growth regulating activity, reproductive hormone

XX CC regulating activity, chemotactic/chemokinetic activity, haemostatic and

XX CC thrombolytic activity, receptor/ligand activity, anti-inflammatory

XX CC activity, tumour inhibition activity or other activities. The products

XX CC can be used in forensic, gene therapy and chromosome mapping procedures.

XX CC The sequences can also be used for obtaining corresponding promoter

XX CC sequences. The nucleic acids encoding the signal peptide can be used for

XX CC directing extracellular secretion of a polypeptide or the insertion of a

XX CC polypeptide into a membrane, or importing a polypeptide into a cell. This

XX CC sequence represents an oligonucleotide used in an example in the

XX CC invention, to the isolate the 5' EST sequences of the invention

XX SQ Sequence 222 AA;

Query Match 95.1%; Score 1048; DB 2; Length 222;

Best Local Similarity 98.1%; Pred. No. 6.3e-106; Indels 0; Gaps 0;

Matches 202; Conservative 0; Mismatches 4;

QY 1 MLWLLFFLVTAHAELCQGAENAFKRLSIRLTALGDKAYADTNEEYLFKAWAFSMRK 60

DB 1 MLWLLFFLVTAHAELCQGAENAFKRLSIRLTALGDKAYADTNEEYLFKAWAFSMRK 60

QY 61 VNRREATEISHVLLCNVTQVSFWFVTDPSKNTLPAVEVQSARMKNNINNAFFLND 120

DB 61 VNRREATEISHVLLCNVTQVSFWFVTDPSKNTLPAVEVQSARMKNNINNAFFLND 120

QY 121 QTLFELKIPSTLAPPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRNRKPESEVD 180

DB 121 QTLFELKIPSTLAPPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRNRKPESEVD 180

QY 181 DAEDKCNMTIENGIPSDPLDMKGG 206

DB 181 DAEXXCENMTIENGIPSDPLDMKGG 206

RESULT 223

AAG00014

ID AAG00014 standard; protein; 222 AA.

AC AAG00014;

DT 06-OCT-2000 (first entry)

DE Human secreted protein #3.

XX Human; secreted protein; 5' EST; expressed sequence tag; cDNA isolation;

XX KW gene therapy; chromosome mapping.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers

FT Peptide 1..13

FT Protein 14..222

XX /label= Secreted_protein

XX EP1033401-A2.

XX 06-SEP-2000.

XX 21-FEB-2000; 2000EP-00200610.

XX

PR 26-FEB-1999; 99US-0122487P.

XX (GBST) GENSET.

PA Dunas Milne Edwards J, Duclert A, Giordano J;

PI WPI; 2000-500381/45.

XX N-PSDB; AAC00012.

DR New nucleic acid that is a 5' expressed sequence tag (5' EST) for

XX obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for

XX diagnostic, forensic, gene therapy and chromosome mapping procedures.

PS Disclosure; SEQ ID NO 5; 71pp + Sequence Listing; English.

XX The present sequence is a human secreted protein. The full length cDNA

XX encoding this protein was obtained from a 5' EST using first and second

XX strand synthesis procedures. 5' ESTs were prepared from total human RNAs

XX or polyA+ RNAs derived from 30 different tissues. EST sequences usually

XX correspond mainly to the 3' untranslated region (UTR) of the mRNA because

XX they are often obtained from oligo-dT primed cDNA libraries. Such ESTs

XX of mRNAs and even in those cases where longer cDNA sequences have been

XX obtained, the full 5' UTR is rarely included. 5' ESTs are derived from

XX mRNAs with intact 5' ends and can therefore be used to obtain full length

XX cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic,

XX gene therapy and chromosome mapping procedures. They are used to obtain

XX upstream regulatory sequences and to design expression and secretion

XX vectors

XX SQ Sequence 222 AA;

Query Match 95.1%; Score 1048; DB 3; Length 222;

Best Local Similarity 98.1%; Pred. No. 6.3e-108; Indels 0; Gaps 0;

Matches 202; Conservative 0; Mismatches 4;

QY 1 MLWLLFFLVTAHAELCQGAENAFKRLSIRLTALGDKAYADTNEEYLFKAWAFSMRK 60

DB 1 MLWLLFFLVTAHAELCQGAENAFKRLSIRLTALGDKAYADTNEEYLFKAWAFSMRK 60

QY 61 VNRREATEISHVLLCNVTQVSFWFVTDPSKNTLPAVEVQSARMKNNINNAFFLND 120

DB 61 VNRREATEISHVLLCNVTQVSFWFVTDPSKNTLPAVEVQSARMKNNINNAFFLND 120

QY 121 QTLFELKIPSTLAPPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRNRKPESEVD 180

DB 121 QTLFELKIPSTLAPPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRNRKPESEVD 180

QY 181 DAEDKCNMTIENGIPSDPLDMKGG 206

DB 181 DAEXXCENMTIENGIPSDPLDMKGG 206

RESULT 224

AAY04174

ID AAY04174 standard; protein; 222 AA.

AC AAY04174;

XX 17-JUN-1999 (first entry)

XX Human 5' EST secreted protein SEQ ID NO:27.

XX Human; secreted protein; EST; expressed sequence tag; diagnosis;

XX forensic; gene therapy; chromosome mapping; signal peptide;

XX upstream regulatory sequence; cytokine activity; cell proliferation;

XX differentiation; haematopoiesis regulation; tissue growth regulation;

XX reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;

XX thrombolytic; anti-inflammatory; tumour inhibition.

XX OS Homo sapiens.

XX W09906548-A2.

XX

XX PD 11-FEB-1999.
XX PF 31-JUL-1998; 98WO-IB001222.
XX PR 01-AUG-1997; 97US-00905135.
XX PA (GBST) GENSET.
XX PI Dumas Milne Edwards J, Duclert A, Lacroix B;
XX DR N-PSDB; AAX30083.
XX PF; 1999-153778/13.
XX DR N-PSDB; AAX30083.
XX PT New nucleic acids encoding human secreted proteins - obtained from cDNA
XX PT libraries prepared from e.g. liver, ovary, brain, prostate, kidney, lung,
XX PT umbilical cord, placenta and colon tissue.
XX PS Example 28; Page 174-175; 824pp; English.
XX CC AAX41094 to AAX41347 represent 5' expressed sequence tags (ESTs) for
XX CC human secreted proteins, and encode the proteins given in AAY12261 to
XX CC AAY12514, respectively. The proteins given represent the signal peptide
XX CC and an N-terminal fragment of a secreted protein. The nucleic acid
XX CC sequences can be used for producing secreted human gene products. They
XX CC can also be used to develop products for diagnosis and therapy. The
XX CC proteins obtained may have cytokine activity, cell
XX CC proliferation/differentiation activity, haematopoiesis regulating
XX CC activity, tissue growth regulating activity, reproductive hormone
XX CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
XX CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
XX CC activity, tumour inhibition activity or other activities. The products
XX CC can be used in forensic, gene therapy and chromosome mapping procedures.
XX CC The sequences can also be used for obtaining corresponding promoter
XX CC sequences. The nucleic acids encoding the signal peptide can be used for
XX CC directing extracellular secretion of a polypeptide or the insertion of a
XX CC polypeptide into a membrane, or importing a polypeptide into a cell. The
XX CC present sequence represents the protein from a 5' EST from an example of
XX CC the present invention
XX SQ Sequence 222 AA;

Query Match 94.4%; Score 1040; DB 2; Length 222;
Best Local Similarity 97.6%; Pred. No. 4.9e-107;
Matches 201; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 MLMLFFLVTAIHAELCQPGAEAFKVRSLRTALGDKAYAWDTNTEYLFKAMVAFSMRK 60
DB 1 MLMLFFLVTAIHAELCQPGAEAFKVRSLRTALGDKAYAWDTNTEYLFKAMVAFSMRK 60
QY 61 VFNREATEISHVLLCNVTQVSFWFVVTDPKNTLPAVEVQSARINMKNRINNAFFLND 120
DB 61 VFNREATEISHVLLCNVTQVSFWFVVTDPKNTLPAVEVQSARINMKNRINNAFFLND 120
QY 121 QTLEFLKIPSTLAPPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRKKKPSSEVD 180
DB 121 QTLEFLKIPSTLAPPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRKKKPSSEVD 180
QY 181 DAEDKCNMTIENGIPSDPLDMKGK 206
DB 181 DAEXXCENMTIENGIPSDPLDMKGK 206

RESULT 225
AAM23565
ID AAM23565 standard; protein; 184 AA.
XX AC AAM23565;
XX DT 12-OCT-2001 (first entry)
XX DE Human EST encoded protein SEQ ID NO: 1090.
XX

KW Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;
KW tomato; monkey; dog; sea urchin; expressed sequence tag; EST;
KW diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;
XX gene therapy; nutrition.
XX OS Homo sapiens.
XX PN WO200154477-A2.
XX PD 02-AUG-2001.
XX PF 25-JAN-2001; 2001WO-US002687.
XX PR 25-JAN-2000; 2000US-00491404.
XX PR 17-JUL-2000; 2000US-00617746.
XX PR 03-AUG-2000; 2000US-00631451.
XX PR 15-SEP-2000; 2000US-00663870.
XX PA (HYSE-) HYSEQ INC.
XX PI Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;
XX PI Cao Y, Drmanac RA, Zhang J, Werhman T;
XX DR WPI; 2001-476164/51.
XX DR N-PSDB; AAX98224.
XX PT Isolated polypeptide for treatment of diseases, diagnostics, raising
XX PT antibodies and research use.
XX PS Claim 20; Page 819-820; 1275pp; English.
XX CC The present invention provides the protein and coding sequences of novel
XX CC proteins from a variety of organisms, including human, dog, cat, horse,
XX CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea
XX CC urchin and tomato. These were derived from expressed sequence tags (ESTs)
XX CC from the organism of interest. They can be used in diagnostics,
XX CC forensics, gene mapping, identification of mutations, to assess
XX CC biodiversity and for nutritional purposes. The present sequence is a
XX CC protein of the invention
XX SQ Sequence 184 AA;

Query Match 86.1%; Score 949; DB 4; Length 184;
Best Local Similarity 99.5%; Pred. No. 5e-97;
Matches 183; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MLMLFFLVTAIHAELCQPGAEAFKVRSLRTALGDKAYAWDTNTEYLFKAMVAFSMRK 60
DB 1 MLMLFFLVTAIHAELCQPGAEAFKVRSLRTALGDKAYAWDTNTEYLFKAMVAFSMRK 60
QY 61 VFNREATEISHVLLCNVTQVSFWFVVTDPKNTLPAVEVQSARINMKNRINNAFFLND 120
DB 61 VFNREATEISHVLLCNVTQVSFWFVVTDPKNTLPAVEVQSARINMKNRINNAFFLND 120
QY 121 QTLEFLKIPSTLAPPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRKKKPSSEVD 180
DB 121 QTLEFLKIPSTLAPPMDPSVPIWIIIFGVIFCIIIVAIALLILSGIWQRKKKPSSEVD 180
QY 181 DAED 184
DB 181 DAEE 184

Search completed: June 4, 2004, 07:54:58
Job time : 88.7366 secs

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OM protein - protein search, using sw model

Run on: June 4, 2004, 07:49:03 ; Search time 24.8195 Seconds
(without alignments)
440.972 Million cell updates/sec

Title: * US-09-997-641-387
Perfect score: 1102
Sequence: 1 MLWLLFLVTAHAEICQPG.....ENGIPSDPLDMKGGILMPS 212

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 80%
Maximum Match 100%
Listing first 65000 summaries

- Database :
- 1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
 - 2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
 - 3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
 - 4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
 - 5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep.*
 - 6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	DB ID	Description

No matches found

Search completed: June 4, 2004, 07:56:19
Job time : 27.3195 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 4, 2004, 07:49:03 ; Search time 47.5707 Seconds
(without alignments)

1406.114 Million cell updates/sec

Title: US-09-997-641-387

Perfect score: 1102

Sequence: 1 MLLPFLVTAHAEIQCQPG.....ENGIPSDPLDMKGGILMMPFS 212

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 3

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 80%

Maximum Match 100%

Listing first 65000 summaries

Database :

SPTREMBL 25:*
1: sp_archaea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_organelle:*
9: sp_phase:*
10: sp_plant:*
11: sp_fodent:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_virus:*
16: sp_bacterioplasmid:*
17: sp_archaea:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1073	97.4	222	4 Q9HBJ8	Q9hbj8 homo sapien
2	928	84.2	222	11 Q9ESG4	Q9esg4 mus musculus
3	921	83.6	222	11 Q9ESG3	Q9esg3 rattus norv

ALIGNMENTS

RESULT 1
Q9HBJ8 ID Q9HBJ8 PRELIMINARY; PRT; 222 AA.
AC Q9HBJ8;
DT 01-MAR-2001 (T-REMBLrel. 16, Created)
DT 01-MAR-2001 (T-REMBLrel. 16, Last sequence update)
DT 01-OCT-2003 (T-REMBLrel. 25, Last annotation update)
DE Kidney-specific membrane protein NX-17 (Hypothetical protein) (NX17)

DE Homo sapiens (Human).
OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A. PubMed=11278314;
RX MEDLINE=21264468; PubMed=11278314;
RA Zhang H., Wada J., Hida K., Teuchiya Y., Hiragushi K., Shikata K.,
Wang H., Lin S., Kanwar Y.S., Makino H.;
RT "Collectrin, a Collecting Duct-Specific Transmembrane Glycoprotein, Is
a Novel Homolog of ACE2 and Is Developmentally Regulated in Embryonic
Kidneys.";
RT J. Biol. Chem. 276:17132-17139 (2001).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Colon;
RX MEDLINE=22388257; PubMed=12477932;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Klausner R.D., Collins P.S., Wagner L., Shenmen C.M., Schuler G.D.,
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
Kryzyski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences.";
RT Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [3]
RP SEQUENCE FROM N.A.
RC TISSUE=Bone marrow, Colon, and Kidney;
RA Strausberg R.;
RL Submitted (APR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL: AF229179; AAG09466.1; -
DR EMBL: BC015099; AAHL5099.1; -
DR EMBL: BC014317; AAHL4317.1; -
DR EMBL: BC050606; AAHS0606.1; -
KW Hypothetical protein.
SQ SEQUENCE 222 AA; 25235 MW; 52C0ED522134ED05 CRC64;

Query Match 97.4%; Score 1073; DB 4; Length 222;

Best Local Similarity 100.0%; Pred. No. 2.7e-105;

Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLLPFLVTAHAEIQCQPGAEAFKVRISIRIATGDKAYANDTNEEYLFKAVAFSMRK 60
Db 1 MLLPFLVTAHAEIQCQPGAEAFKVRISIRIATGDKAYANDTNEEYLFKAVAFSMRK 60
Qy 61 VPNRBAVEIASHVLLCNVTVQVSPFVTVDPKSHNTLPAYEVQSAIRMKRINNAFPLND 120
Db 61 VPNRBAVEIASHVLLCNVTVQVSPFVTVDPKSHNTLPAYEVQSAIRMKRINNAFPLND 120
Qy 121 QTFLEFLKIPSTLAPMDPSVPIWIIIFGVIFCIIVAIALLILSGIWMORRKNKESEVD 180
Db 121 QTFLEFLKIPSTLAPMDPSVPIWIIIFGVIFCIIVAIALLILSGIWMORRKNKESEVD 180
Qy 181 DAEDKCNMTIENGIPSDPLDMKGG 206
Db 181 DAEDKCNMTIENGIPSDPLDMKGG 206

RESULT 2
Q9ESG4

ID AC Q9ESG4 PRELIMINARY; PRT; 222 AA.
 DT 01-MAR-2001 (T-EMBLrel. 16, Created)
 DT 01-MAR-2001 (T-EMBLrel. 16, Last sequence update)
 DT 01-JUN-2003 (T-EMBLrel. 24, Last annotation update)
 DE Kidney-specific membrane protein NX-17 (0610008070Rik protein).
 GN NX17 OR 0610008070Rik.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=ICR;
 RX MEDLINE=99362608; PubMed=104321394;
 RA Zhang H., Wada J., Kanwar Y.S., Tsuchiyama Y., Hiragushi K., Hida K.,
 RA Shikata K., Makino H.,
 RT "Screening for genes up-regulated in 5/6 nephrectomized mouse
 RT kidney";
 RL Kidney Int. 56:549-558 (1999).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Kidney;
 RX MEDLINE=21085660; PubMed=11217851;
 RA Kawai J., Shingawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
 RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaoka I.,
 RA Saito T., Okazaki Y., Gojohori T., Bono H., Kasukawa T., Saito R.,
 RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
 RA Fleischnann W., Gaasterland T., Glasi C., King B., Kochiwa H.,
 RA Kuehl P., Lewis S., Matsuo Y., Nikaide I., Pesole G., Quackenbush J.,
 RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
 RA Sakai K., Okido T., Furuno M., Kono H., Baldarelli R., Barch G.,
 RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
 RA Brownstein M.J., Bull C., Fletcher C., Fujita M., Gariboldi M.,
 RA Gustinich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
 RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 RA Sasaki H., Sato K., Schoenbach C., Seva T., Shibata Y., Storch K.-F.,
 RA Suzuki H., Tovo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
 RA Wyshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kontecki S.,
 RA Hayashizaki Y.,
 RT "Functional annotation of a full-length mouse cDNA collection";
 RL Nature 409:685-690 (2001).
 RN [3]
 RP SEQUENCE FROM N.A.
 RC STRAIN=FVB/N; TISSUE=Kidney;
 RX MEDLINE=22388257; PubMed=12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins E.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heide F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Udén T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Rulyk S.W.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettner M., Madan A., Rodriguez S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
 RA Krzywicki M.I., Skalska U., Smalls D.E., Schnerch A., Schein J.E.,
 RA Jones S.J., Marra M.A.,
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 RN [4]
 RP SEQUENCE FROM N.A.
 RC STRAIN=FVB/N; TISSUE=Kidney;
 RX Strausberg R.,
 RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.

DR EMBL; AF178085; AAG09306.1; -;
 DR EMBL; AK002337; BAB2022.1; -;
 DR EMBL; BC049912; AAH49912.1; -;
 DR MGD; MGI:1926234; Nrl7
 SQ SEQUENCE 222 AA; 25070 MW; C07E732CE92935A9 CRC64;
 Query Match 84.2%; Score 928; DB 11; Length 222;
 Best Local Similarity 84.5%; Pred. No. 6e-90;
 Matches 174; Conservative 15; Mismatches 17; Indels 0; Gaps 0;
 QY 1 MLWLFFLVTAHAEICQGAENAFKVLRSIRTAGDKAYAWDTNNEVLFKAMVAFSMRK 60
 DB 1 MLWLFFLVTAHAEICQGAENAFKVLRSIRTAGDKAYAWDTNNEVLFKAMVAFSMRK 60
 QY 61 VFNREATEISHVLLCNVTQVRSFVVTDPDSQHTLPAAVEQSAIRNMKNRINNAPFLND 120
 DB 61 VFNREATEISHVLLCNVTQVRSFVVTDPDSQHTLPAAVEQSAIRNMKNRINNAPFLND 120
 QY 121 QTLEFLKIPSTLAPPDPSVPVWIIIVGVIFCIIVAIALLILSGIWRRRKNKPSVD 180
 DB 121 HTLEFLKIPSTLAPPDPSVPVWIIIVGVIFCIIVAIALLILSGIWRRRKNKPSVD 180
 QY 181 DAEDKCNMTIENGIPSDPLDMKGG 206
 DB 181 DAEDKCNMTIENGIPSDPLDMKGG 206
 RESULT 3
 ID Q9ESG3 PRELIMINARY; PRT; 222 AA.
 AC Q9ESG3;
 DT 01-MAR-2001 (T-EMBLrel. 16, Created)
 DT 01-MAR-2001 (T-EMBLrel. 16, Last sequence update)
 DE Kidney-specific membrane protein NX-17.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Sprague-Dawley;
 RX MEDLINE=99362608; PubMed=104321394;
 RA Zhang H., Wada J., Kanwar Y.S., Tsuchiyama Y., Hiragushi K., Hida K.,
 RA Shikata K., Makino H.,
 RT "Screening for genes up-regulated in 5/6 nephrectomized mouse
 RT kidney";
 RL Kidney Int. 56:549-558 (1999).
 DR EMBL; AF178086; AAG09307.1; -;
 SQ SEQUENCE 222 AA; 25226 MW; 7F4B166AE344F855 CRC64;
 Query Match 83.6%; Score 921; DB 11; Length 222;
 Best Local Similarity 84.5%; Pred. No. 3.3e-89;
 Matches 174; Conservative 13; Mismatches 19; Indels 0; Gaps 0;
 QY 1 MLWLFFLVTAHAEICQGAENAFKVLRSIRTAGDKAYAWDTNNEVLFKAMVAFSMRK 60
 DB 1 MLWLFFLVTAHAEICQGAENAFKVLRSIRTAGDKAYAWDTNNEVLFKAMVAFSMRK 60
 QY 61 VFNREATEISHVLLCNVTQVRSFVVTDPDSQHTLPAAVEQSAIRNMKNRINNAPFLND 120
 DB 61 VFNREATEISHVLLCNVTQVRSFVVTDPDSQHTLPAAVEQSAIRNMKNRINNAPFLND 120
 QY 121 QTLEFLKIPSTLAPPDPSVPVWIIIVGVIFCIIVAIALLILSGIWRRRKNKPSVD 180
 DB 121 HTLEFLKIPSTLAPPDPSVPVWIIIVGVIFCIIVAIALLILSGIWRRRKNKPSVD 180
 QY 181 DAEDKCNMTIENGIPSDPLDMKGG 206
 DB 181 DAEDKCNMTIENGIPSDPLDMKGG 206
 Search completed: June 4, 2004, 07:50:54

GenCore version 5.1.6
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OM protein - protein search, using sw model
Run on: June 4, 2004, 07:49:03 ; Search time 44.4293 Seconds
(without alignments)
1406.114 Million cell updates/sec

Title: US-09-997-641-387_COPY_15_212
Perfect score: 1029
Sequence: 1 ELCQFGAENAFKVRISRTA.....ENGIPSDPLDMKGGILMWS 198

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 3

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 80%
Maximum Match 100%
Listing first 65000 summaries

Database : SPTREMBL_25.*

- 1: sp_archaea.*
- 2: sp_bacteria.*
- 3: sp_fungi.*
- 4: sp_human.*
- 5: sp_invertebrate.*
- 6: sp_mammal.*
- 7: sp_mhc.*
- 8: sp_organelle.*
- 9: sp_phage.*
- 10: sp_plant.*
- 11: sp_rodent.*
- 12: sp_virus.*
- 13: sp_vertebrate.*
- 14: sp_unclassified.*
- 15: sp_rvirus.*
- 16: sp_bacteriap.*
- 17: sp_archaeap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	1000	97.2	222	4 Q9HBJ8	Q9hbj8 homo sapien
2	864	84.0	222	11 Q9ESG4	Q9esg4 mus musculus
3	857	83.3	222	11 Q9ESG3	Q9esg3 rattus norv

ALIGNMENTS

RESULT 1
Q9HBJ8
ID Q9HBJ8 PRELIMINARY; PRT; 222 AA.
AC Q9HBJ8;
DT 01-MAR-2001 (TRENBERL. 16, Created)
DT 01-MAR-2001 (TRENBERL. 16, Last sequence update)
DT 01-OCT-2003 (TRENBERL. 25, Last annotation update)
DE Kidney-specific membrane protein NK-17 (Hypothetical protein) (NX17)

DE Homo sapiens (Human).
OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21264468; PubMed=11278314;
RA Zhang H., Wada J., Hida K., Tsuchiyama Y., Hiragushi K., Shikata K.,
Wang H., Lin S., Kanwar Y.S., Makino H.;
RT "Collectrin, a Collecting Duct-specific Transmembrane Glycoprotein, Is
a Novel Homolog of ACE2 and Is Developmentally Regulated in Embryonic
Kidneys.";
RL J. Biol. Chem. 276:17132-17139(2001).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Colon;
RX MEDLINE=22386257; PubMed=12477932;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Klausner R.D., Collins P.S., Wagner L., Shenmen C.M., Schuler G.D.,
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
Whiting M., Madan A., Young A.C., Shevchenko Y., Bonfield G.G.,
Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
Krywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [3]
RP SEQUENCE FROM N.A.
RC TISSUE=Bone marrow, Colon, and Kidney;
RA Strausberg R.;
RI Submitted (APR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF229179; AAC09466.1; -
DR EMBL; BC015099; AAH15099.1; -
DR EMBL; BC014317; AAH14317.1; -
DR EMBL; BC050606; AAH50606.1; -
KW Hypothetical protein.
SQ SEQUENCE 222 AA; 52335 MW; 52C0BD522134ED05 CRC64;
Query Match 97.2%; Score 1000; DB 4; Length 222;
Best Local Similarity 100.0%; Pred. No. 5.3e-98;
Matches 192; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELCQFGAENAFKVRISRTALGDKAYAWDTNNEEYLFKAMVAFSPKVRNREATEISHVLL 60
DB 15 ELCQFGAENAFKVRISRTALGDKAYAWDTNNEEYLFKAMVAFSPKVRNREATEISHVLL 74
QY 61 CNVTQVRFVFWVDPSKNHTLPAVEVQSALRMKNKRNINNAFFINDOTLEFLKIPSTLAP 120
DB 75 CNVTQVRFVFWVDPSKNHTLPAVEVQSALRMKNKRNINNAFFINDOTLEFLKIPSTLAP 134
QY 121 FMDPSVPIWIIIFGVIFCIIVALLILSSIMQWRKRNKPESEVDDAEDKCNMTTEN 180
DB 135 FMDPSVPIWIIIFGVIFCIIVALLILSSIMQWRKRNKPESEVDDAEDKCNMTTEN 194
QY 181 GIPSDPLDMKGG 192
DB 195 GIPSDPLDMKGG 206

RESULT 2
Q9ESG4

ID Q9ESG4 PRELIMINARY; PRT; 222 AA.
 AC Q9ESG4;
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
 DE Kidney-specific membrane protein NX-17 (O61008U07Rik protein).
 GN NX17 OR O61008U07Rik.
 OS Mus musculus (Mouse).
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=ICR;
 RX MEDLINE=99362608; PubMed=10432394;
 RA Zhang H., Wada J., Kanwar Y.S., Tsuchiyama Y., Hiragushi K., Hida K.,
 RA Shikata K., Makino H.;
 RT "Screening for genes up-regulated in 5/6 nephrectomized mouse
 kidney";
 RL Kidney Int. 56:549-558 (1999).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Kidney;
 RX MEDLINE=21085660; PubMed=11217851;
 RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 RA Arakawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,
 RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamana K.I.,
 RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
 RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
 RA Fleischmann W., Gaasterland T., Gisi C., King B., Kochiwa H.,
 RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
 RA Schirni L.M., Staubli P., Suzuki R., Tomita M., Wagner L., Washio T.,
 RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barch G.,
 RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.P.,
 RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
 RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
 RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-P.,
 RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
 RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohzuki S.,
 RA Hayashizaki Y.;
 RT "Functional annotation of a full-length mouse cDNA collection";
 RL Nature 409:685-690 (2001).
 RN [3]
 RP SEQUENCE FROM N.A.
 RC STRAIN=FVB/N; TISSUE=Kidney;
 RX MEDLINE=22388257; PubMed=12477932;
 RA Strausberg R.D., Feingold E.A., Grouse L.H., Derge J.G., Schuler G.D.,
 RA Klausner R.D., Collins P.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.P., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Udell T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Pahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
 RA Krzywinski M.I., Skalek U., Smalls D.B., Schnerk A., Schein J.E.,
 RA Jones S.J., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 and mouse cDNA sequences";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 RN [4]
 RP SEQUENCE FROM N.A.
 RC STRAIN=FVB/N; TISSUE=Kidney;
 RA Strausberg R.;
 RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.

DR EMBL: AP178085; AAG09306.1; --
 DR EMBL: AK002337; BAB2022.1; --
 DR EMBL: BC049912; AAH49912.1; --
 DR MGI: 1926234; Nxl7.
 SQ SEQUENCE 222 AA; 25070 MW; C07E732CE92935A9 CRC64;
 Query Match 84.0%; Score 864; DB 11; Length 222;
 Best Local Similarity 84.4%; Pred. No. 1.5e-83;
 Matches 162; Conservative 15; Mismatches 15; Indels 0; Gaps 0;
 QY 1 ELCCQCAENAPKVRILSIRIALGDKAYVMDTDEYLFRAMVAFSPKVRNREATEISHVLL 60
 DB 15 ELCHPDAENAPKVRILSIRIALGDKAYVMDTDEYLFRAMVAFSPKVRNREATEISHVLL 74
 QY 61 CNVTQVSFWFVTDPSKNHTLPAVEVQSAIRMNKRINNAPFLNDQTLFPLKIPSTLAP 120
 DB 75 CNITQVSFWFVTDPSNNYTLPAAEVQSAIRMNKRINNAPFLNDQTLFPLKIPSTLAP 134
 QY 121 PMDPSVPVWIIIFGVIFCIIIVAILLISGIVQWRNRKKEPSEVDDADCKENMITIEN 180
 DB 135 FMEPSVPVWIIIFGVIFCIIIVAILLISGIVQWRNRKKEPSEVDDADCKENMITIEN 194
 QY 181 GIPSDPLDMKGG 192
 DB 195 GIPCDPLDMKGG 206

RESULT 3

Q9ESG3 PRELIMINARY; PRT; 222 AA.
 ID Q9ESG3;
 AC Q9ESG3;
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
 DT 01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
 DE Kidney-specific membrane protein NX-17.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Sprague-Dawley;
 RX MEDLINE=99362608; PubMed=10432394;
 RA Zhang H., Wada J., Kanwar Y.S., Tsuchiyama Y., Hiragushi K., Hida K.,
 RA Shikata K., Makino H.;
 RT "Screening for genes up-regulated in 5/6 nephrectomized mouse
 kidney";
 RL Kidney Int. 56:549-558 (1999).
 DR EMBL: AP178085; AAG09307.1; --
 SQ SEQUENCE 222 AA; 25226 MW; 7PAE166AE344P855 CRC64;
 Query Match 83.3%; Score 857; DB 11; Length 222;
 Best Local Similarity 84.4%; Pred. No. 8.5e-83;
 Matches 162; Conservative 13; Mismatches 17; Indels 0; Gaps 0;
 QY 1 ELCCQCAENAPKVRILSIRIALGDKAYVMDTDEYLFRAMVAFSPKVRNREATEISHVLL 60
 DB 15 ELCHPDAENAPKVRILSIRIALGDKAYVMDTDEYLFRAMVAFSPKVRNREATEISHVLL 74
 QY 61 CNVTQVSFWFVTDPSKNHTLPAVEVQSAIRMNKRINNAPFLNDQTLFPLKIPSTLAP 120
 DB 75 CNITQVSFWFVTDPSNNYTLPAAEVQSAIRMNKRINNAPFLNDQTLFPLKIPSTLAP 134
 QY 121 PMDPSVPVWIIIFGVIFCIIIVAILLISGIVQWRNRKKEPSEVDDADCKENMITIEN 180
 DB 135 FMEPSVPVWIIIFGVIFCIIIVAILLISGIVQWRNRKKEPSEVDDADCKENMITIEN 194
 QY 181 GIPSDPLDMKGG 192
 DB 195 GIPCDPLDMKGG 206

Search completed: June 4, 2004, 07:50:55

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Tue Jun 8 07:19:25 2004

Job time : 47.4293 secs